

AIR QUALITY**MANAGEMENT DISTRICT****AUTHORITY TO CONSTRUCT****A/C NO.: 23110**

POLLUTANT	EMISSION FACTOR (A) LB/MMFT ³ OF LFG	MAXIMUM ALLOWABLE EMISSIONS (B)				
		DAILY LB/DAY	QUARTER 1 (90 DAYS) LB/QUARTER	QUARTER 2 (91 DAYS) LB/QUARTER	QUARTERS 3 & 4 (92 DAYS) LB/QUARTER	YEARLY LB/YEAR
CO	100	720.0	64,800	65,520	66,240	262,800
GHG	55.06 (C) LB/MCF	198.2 TON/DAY	17,838 TON/QTR	18,036 TON/QTR	18,234 TON/QTR	72,342 TON/YR
GHG	0.001 (C) LB/MCF	0.0036 TON/DAY	0.3 TON/QTR	0.3 TON/QTR	0.3 TON/QTR	1.2 TON/YR

(A) EMISSION FACTORS FOR NO_x AND CO ARE BASED ON SMAQMD BACT DETERMINATION OF 0.06 LB/MMBTU AND 0.20 LB/MMBTU RESPECTIVELY AND A HEAT CONTENT OF 500 BTU/SCF OF LANDFILL GAS. EMISSION FACTOR FOR ROC IS BASED ON 7,857 PPMV NMOC IN THE LANDFILL GAS AND 98% DESTRUCTION EFFICIENCY. EMISSION FACTOR FOR SO_x IS BASED ON SMAQMD BACT DETERMINATION OF 16 GRAINS OF SULFUR COMPOUNDS PER 100 CUBIC FEET OF LANDFILL GAS (AS H₂S) AND A CONVERSION EFFICIENCY TO SO_x OF 98%. EMISSION FACTOR FOR PM₁₀ IS BASED ON SMAQMD BACT DETERMINATION.

(B) EMISSIONS BASED ON 5,000 SCFM LANDFILL GAS FUEL COMBUSTION RATE, 24 HOURS/DAY AND THE NUMBER OF DAYS IN EACH CALENDAR QUARTER. YEARLY EMISSIONS ARE EQUAL TO THE CUMMULATIVE QUARTERLY EMISSIONS.

(C) THE POTENTIAL TO EMIT FOR GHG IS BASED ON THE BEST AVAILABLE CO₂E EMISSION FACTOR AT THE TIME THE PERMIT ACTION WAS TAKEN AND THE MAXIMUM ALLOWED FUEL USAGE RATE OF 5,000 SCFM. SHOULD THE EMISSION FACTOR CHANGE, THE POTENTIAL TO EMIT WILL BE MODIFIED ACCORDINGLY.

THE EMISSION FACTOR FOR TOTAL GHG (55.06 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES COMBUSTION BYPRODUCTS (CH₄, CO₂ AND N₂O) BUT IT DOES NOT INCLUDE PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

THE EMISSION FACTOR NOT NON-BIOGENIC GHG (0.001 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES THE NON-CO₂ COMBUSTION BYPRODUCTS (CH₄, AND N₂O) BUT IT DOES NOT INCLUDE COMBUSTION CO₂ OR PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

9. A. COMBINED EMISSIONS FROM THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM EQUIPMENT (FIVE IC ENGINES AND TWO FLARES) SHALL NOT EXCEED THE FOLLOWING:

A/C 23110 LANDFILL GAS FLARE NO. 1 AND
A/C 23111 LANDFILL GAS FLARE NO. 2 AND
A/C 23112 IC ENGINE NO. 1 AND
A/C 23113 IC ENGINE NO. 2 AND
A/C 23114 IC ENGINE NO. 3 AND
A/C 23115 IC ENGINE NO. 4 AND
A/C 23116 IC ENGINE NO. 5

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POLLUTANT	MAXIMUM ALLOWABLE EMISSIONS (B)				
	QUARTER 1 (90 DAYS) LB/QUARTER	QUARTER 2 (91 DAYS) LB/QUARTER	QUARTER 3 (92 DAYS) LB/QUARTER	QUARTER 4 (92 DAYS) LB/QUARTER	ANNUALLY TON/YEAR
ROC	34,573	34,958	35,320	35,320	70.1
NO _x	43,151	43,631	44,110	44,110	87.5
SO _x	44,698	45,195	45,715	45,715	90.7
PM10	13,350	13,501	13,648	13,648	27.1
CO	219,798	222,258	224,715	224,715	445.7
GHG (A)	37,356 TON/QTR	37,770 TON/QTR	38,186 TON/QTR	38,186 TON/QTR	151,498
GHG (A)	0.7 TON/QTR	0.7 TON/QTR	0.7 TON/QTR	0.7 TON/QTR	2.8

(A) THE POTENTIAL TO EMIT FOR GHG IS BASED ON THE BEST AVAILABLE CO₂E EMISSION FACTOR AT THE TIME THE PERMIT ACTION WAS TAKEN AND THE MAXIMUM ALLOWED FUEL USAGE RATE (10,470 CFM; 5,000 CFM FOR THE FLARES AND 5,470 CFM FOR THE ENGINES). SHOULD THE EMISSION FACTOR CHANGE, THE POTENTIAL TO EMIT WILL BE MODIFIED ACCORDINGLY.

THE EMISSION FACTOR FOR TOTAL GHG (55.06 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES COMBUSTION BYPRODUCTS (CH₄, CO₂ AND N₂O) BUT IT DOES NOT INCLUDE PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

THE EMISSION FACTOR NOT NON-BIOGENIC GHG (0.001 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES THE NON-CO₂ COMBUSTION BYPRODUCTS (CH₄, AND N₂O) BUT IT DOES NOT INCLUDE COMBUSTION CO₂ OR PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

(B) QUARTERLY EMISSIONS ARE BASED ON 24 HOURS/DAY AND THE ACTUAL NUMBER OF DAYS IN EACH CALENDAR QUARTER. ANNUAL EMISSIONS ARE THE SUM OF THE QUARTERLY EMISSIONS.

B. COMBINED EMISSIONS FROM THE FIVE IC ENGINES ONLY (EXCLUDING THE FLARE) SHALL NOT EXCEED THE FOLLOWING:

A/C 23112 IC ENGINE NO. 1 AND
A/C 23113 IC ENGINE NO. 2 AND
A/C 23114 IC ENGINE NO. 3 AND
A/C 23115 IC ENGINE NO. 4 AND
A/C 23116 IC ENGINE NO. 5

POLLUTANT	MAXIMUM ANNUAL ALLOWABLE EMISSIONS (A) TONS/YEAR
NO _x	79.8

(A) THE NO_x EMISSIONS FROM THE FIVE IC ENGINES ARE LIMITED BY THE AMOUNT OF ERCS PROVIDED FROM SOURCES OTHER THAN THE SMAQMD PRIORITY RESERVE BANK ESSENTIAL PUBLIC SERVICES ACCOUNT. THE

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7.72 TONS OF NO_x ERCS LEASED FROM THE ESSENTIAL PUBLIC SERVICES ACCOUNT (SEE CONDITION NO. 27) ARE NOT ALLOWED TO BE USED FOR ON-SITE POWER GENERATION BY SMAQMD RULE 205 SECTION 102.1.

EQUIPMENT OPERATION REQUIREMENTS

10. THE CONCENTRATION OF SULFUR COMPOUNDS (MEASURED AS HYDROGEN SULFIDE) IN THE LANDFILL GAS COMBUSTED IN LANDFILL GAS FLARE NO. 1 SHALL NOT EXCEED 16 GRAINS PER 100 CUBIC FEET. (SMAQMD BACT DETERMINATION)
11. A SAMPLING PORT, OR OTHER METHOD APPROVED BY THE SMAQMD AIR POLLUTION CONTROL OFFICER, SHALL BE INSTALLED AT THE INLET GAS LINE TO LANDFILL GAS FLARE NO. 1. THE SAMPLING PORT SHALL BE LOCATED SO THAT AN ACCURATE VOLUME FLOW MEASUREMENT CAN BE PERFORMED.
12. LANDFILL GAS FLARE NO. 1 EXHAUST SAMPLE PORTS SHALL BE PERMANENT, ACCESSIBLE AND LOCATED AND CONSTRUCTED AS PER APPLICABLE U.S. EPA, CARB AND U.S. OSHA REQUIREMENTS.
13. A LANDFILL GAS FLOWRATE MEASURING DEVICE THAT PROVIDES A MEASUREMENT OF LANDFILL GAS FLOW TO THE LANDFILL GAS FLARE NO. 1 SHALL BE INSTALLED, CALIBRATED AND MAINTAINED.
 - A. THE LANDFILL GAS FLOWRATE MEASURING DEVICE SHALL RECORD THE FLOW TO LANDFILL GAS FLARE NO. 1 AT LEAST EVERY 15 MINUTES.
 - B. THE OWNER OR OPERATOR SHALL SUBMIT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER FOR APPROVAL A DESCRIPTION OF THE LANDFILL GAS FLOWRATE MEASURING DEVICE CALIBRATION PROCEDURE AND SCHEDULE OF CALIBRATION.
14. LANDFILL GAS FLARE NO. 1 SHALL BE EQUIPPED WITH A TEMPERATURE MONITORING DEVICE.
 - A. THE THERMOCOUPLE USED TO MEASURE LANDFILL GAS FLARE NO. 1 TEMPERATURE SHALL BE LOCATED AT A DISTANCE THAT IS GREATER THAN THE DISTANCE EQUIVALENT TO 0.6 SECONDS AT THE MAXIMUM FLOW RATE DOWNSTREAM OF THE BURNER.
 - B. THE TEMPERATURE MONITORING DEVICE SHALL BE EQUIPPED WITH A CONTINUOUS RECORDER.
 - C. THE TEMPERATURE MONITORING DEVICE SHALL HAVE AN ACCURACY OF ± 1 PERCENT OF THE TEMPERATURE BEING MEASURED EXPRESSED IN DEGREES CELSIUS OR ± 0.5 DEGREES C, WHICHEVER IS GREATER.
 - D. THE TEMPERATURE MONITORING DEVICE IS NOT PRECLUDED FROM EXPRESSING MEASUREMENTS IN DEGREES FAHRENHEIT AS LONG AS THE AFOREMENTIONED ACCURACY IS MET.
 - E. THE OWNER OR OPERATOR SHALL SUBMIT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER FOR APPROVAL A DESCRIPTION OF THE TEMPERATURE MONITORING DEVICE CALIBRATION PROCEDURE AND SCHEDULE OF CALIBRATION.
15. THE LANDFILL GAS FLARE SHALL OPERATE AT A MINIMUM COMBUSTION ZONE TEMPERATURE NO LESS THAN THE 3-HOUR AVERAGE TEMPERATURE (MEASURED BY THE THERMOCOUPLE SPECIFIED IN CONDITION NO. 14) AS DETERMINED DURING THE MOST RECENT COMPLYING SOURCE TEST MINUS 28 DEGREES C (50 DEGREES F).

(THE DATA FROM THE MOST RECENT SOURCE TEST IS SUMMARIZED IN ATTACHMENT A INDICATING THE 3-HOUR AVERAGE TEMPERATURE MEASURED BY THE THERMOCOUPLE REQUIRED BY CONDITION NO. 14.)
16. THE LANDFILL GAS CONDENSATE INJECTION RATE INTO THE LANDFILL GAS FLARE SHALL NOT EXCEED 3 GALLONS/MINUTE (MANUFACTURER'S DATA INDICATING A 3 GALLONS/MINUTE MAXIMUM INJECTION RATE HAS BEEN SUBMITTED TO THE SMAQMD).

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RECORDKEEPING AND REPORTING REQUIREMENTS

17. THE FOLLOWING RECORD SHALL BE CONTINUOUSLY MAINTAINED ON SITE FOR THE MOST RECENT 5 YEAR PERIOD, EXCEPT AS NOTED, AND SHALL BE MADE AVAILABLE TO THE SMAQMD AIR POLLUTION CONTROL OFFICER UPON REQUEST. QUARTERLY AND ANNUAL RECORDS SHALL BE MADE AVAILABLE FOR INSPECTION WITHIN 30 DAYS OF THE END OF THE REPORTING PERIOD.

FREQUENCY	INFORMATION TO BE RECORDED
AT ALL TIMES	<p>A. THE FOLLOWING INFORMATION MEASURED DURING THE INITIAL PERFORMANCE TEST SHALL BE MAINTAINED FOR THE LIFE OF THE FLARE. RECORDS OF SUBSEQUENT TESTS OR MONITORING SHALL BE MAINTAINED FOR A MINIMUM OF 5 YEARS. [40 CFR 60.758(B)]</p> <ol style="list-style-type: none"> 1. THE LANDFILL GAS FLARE AVERAGE COMBUSTION TEMPERATURE MEASURED AT LEAST EVERY 15 MINUTES AND AVERAGED OVER THE SAME TIME PERIOD AS THE PERFORMANCE TEST. [40 CFR 60.758(B)(2)(I)] 2. THE PERCENT REDUCTION OF NMOC, DETERMINED AS SPECIFIED IN 40 CFR 60.752(B)(2)(III)(B), ACHIEVED BY THE FLARE. [40 CFR 60.758(B)(2)(II)] <p>B. CONTINUOUSLY MONITORED LANDFILL GAS FLOWRATE TO THE LANDFILL GAS FLARE AS REQUIRED BY CONDITION NO. 13.</p> <p>C. CONTINUOUSLY MONITORED COMBUSTION TEMPERATURE OF THE LANDFILL GAS FLARE AS REQUIRED BY CONDITION NO. 14.</p> <p>D. ALL 3 HOUR PERIODS OF OPERATION DURING WHICH THE LANDFILL GAS FLARE AVERAGE COMBUSTION TEMPERATURE WAS BELOW THE LIMIT ESTABLISHED IN CONDITION NO. 15. [40 CFR 60.758(C)(1)(I)]</p> <p>E. RECORDS OF CALIBRATION REPORTS FOR THE LANDFILL GAS FLOWRATE MONITORING DEVICE.</p> <p>F. RECORD OF CALIBRATION REPORTS FOR THE TEMPERATURE MONITORING DEVICE.</p> <p>G. RECORDS OF SOURCES TEST PLANS AND RESULTS TO DETERMINE COMPLIANCE WITH THE NO_x LIMIT IN CONDITION NO. 7 SHALL BE MAINTAINED FOR A MINIMUM OF 5 YEARS.</p>
QUARTERLY	<p>H. COMPARISON OF THE ACTUAL EMISSIONS FROM THE LANDFILL GAS EMISSION CONTROL SYSTEM EQUIPMENT (5 IC ENGINES AND 2 FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 9.A. (LB/QUARTER)</p>
ANNUALLY	<p>I. COMPARISON OF THE ACTUAL EMISSIONS FROM THE LANDFILL GAS EMISSION CONTROL SYSTEM EQUIPMENT (5 IC ENGINES AND 2 FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 9.A. (TONS/YEAR)</p> <p>J. COMPARISON OF THE ACTUAL EMISSIONS FROM THE 5 IC ENGINES ONLY (EXCLUDING THE FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 9.B. (TONS/YEAR)</p>

18. A WRITTEN REPORT SHALL BE SUBMITTED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER ANNUALLY BY THE DATE INDICATED AND SHALL CONTAIN THE FOLLOWING INFORMATION.

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FREQUENCY	INFORMATION TO BE SUBMITTED
ANNUALLY BY: JANUARY 31	A. ALL 3 HOUR PERIODS OF OPERATION DURING WHICH THE LANDFILL GAS FLARE AVERAGE COMBUSTION TEMPERATURE WAS BELOW THE LIMIT ESTABLISHED IN CONDITION NO. 14. [40 CFR 60.758(C)(1)(I)]
FOR THE PREVIOUS CALENDAR YEAR	B. DESCRIPTION AND DURATION OF ALL PERIODS WHEN THE LANDFILL GAS FLARE WAS NOT OPERATING FOR A PERIOD EXCEEDING 1 HOUR AND LENGTH OF TIME THE LANDFILL GAS FLARE WAS NOT OPERATING. [40 CFR 60.757(F)(3)]

19. THE PERMITTEE SHALL DEVELOP AND IMPLEMENT A WRITTEN STARTUP, SHUTDOWN AND MALFUNCTION (SSM) PLAN AS SPECIFIED IN 40 CFR 63.6(E)

20. STARTUP, SHUTDOWN AND MALFUNCTION (SSM) IMMEDIATE REPORT

A WRITTEN SSM IMMEDIATE REPORT SHALL BE SUBMITTED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER AS INDICATED AND SHALL CONTAIN THE FOLLOWING INFORMATION.

[40 CFR 63.1955(B), 40 CFR 63.1980(B), 40 CFR 63.10(D)(5)(II)]

FREQUENCY	INFORMATION TO BE SUBMITTED
<u>ONLY REQUIRED IF A SSM EVENT OCCURRED.</u>	A. IF ACTIONS TAKEN DURING A SSM EVENT <u>ARE NOT CONSISTENT</u> WITH THE PROCEDURES SPECIFIED IN THE SSM PLAN, THE PERMITTEE SHALL:
WITHIN 2 WORKING DAYS →	I. REPORT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER, BY TELEPHONE CALL OR FACSIMILE (FAX), WITHIN 2 WORKING DAYS AFTER COMMENCING ACTIONS <u>NOT CONSISTENT</u> WITH THE SSM PLAN.
WITHIN 7 WORKING DAYS →	II. FOLLOW WITH A LETTER TO THE SMAQMD AIR POLLUTION CONTROL OFFICER WITHIN 7 WORKING DAYS AFTER THE END OF THE SSM EVENT THAT:
	A. CONTAINS THE NAME, TITLE AND SIGNATURE OF THE RESPONSIBLE OFFICIAL WHO IS CERTIFYING THE ACCURACY OF THE REPORT.
	B. EXPLAINS THE CIRCUMSTANCES OF THE EVENT.
	C. EXPLAINS THE REASONS FOR NOT FOLLOWING THE SSM PLAN.
	D. EXPLAINS WHETHER ANY EXCESS EMISSIONS AND/OR PARAMETER MONITORING EXCEEDANCES ARE BELIEVED TO HAVE OCCURRED.

21. STARTUP, SHUTDOWN AND MALFUNCTION (SSM) PERIODIC REPORT

A WRITTEN SSM PERIODIC REPORT SHALL BE SUBMITTED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER BY THE DATE INDICATED AND SHALL CONTAIN THE FOLLOWING INFORMATION.

[40 CFR 63.1955(B), 40 CFR 63.1980(B), 40 CFR 63.10(D)(5)(I)]

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FREQUENCY	INFORMATION TO BE SUBMITTED
<u>ONLY REQUIRED IF A SSM EVENT OCCURRED WITHIN A REPORTING PERIOD.</u> SUBMIT BY - JANUARY 31 JULY 30 FOR THE REPORTING PERIODS - JANUARY 01 - JUNE 30 JULY 01 - DECEMBER 31	A. IF ACTIONS TAKEN DURING A SSM EVENT <u>ARE CONSISTENT</u> WITH THE PROCEDURES SPECIFIED IN THE SSM PLAN, THE PERMITTEE SHALL STATE SUCH INFORMATION IN A SSM REPORT. B. THE SSM REPORT SHALL CONTAIN: <ol style="list-style-type: none"> I. NUMBER, DURATION AND A BRIEF DESCRIPTION OF EACH SSM EVENT. II. A LETTER CONTAINING THE NAME, TITLE AND SIGNATURE OF THE RESPONSIBLE OFFICIAL WHO IS CERTIFYING THE ACCURACY OF THE REPORT.

22. THE PERMITTEE SHALL MAINTAIN FILES OF ALL REQUIRED SSM INFORMATION SPECIFIED BELOW (INCLUDING ALL REPORTS AND NOTIFICATIONS), RECORDED IN A FORM SUITABLE AND READILY AVAILABLE FOR EXPEDITIOUS INSPECTION AND REVIEW. THE FILES SHALL BE RETAINED FOR AT LEAST 5 YEARS FOLLOWING THE DATE OF EACH OCCURRENCE, MEASUREMENT, MAINTENANCE, CORRECTIVE ACTION, REPORT OR RECORD. AT A MINIMUM, THE MOST RECENT 2 YEARS OF DATA SHALL BE RETAINED ON SITE. THE REMAINING 3 YEARS OF DATA MAY BE RETAINED OFF SITE. SUCH FILES MAY BE MAINTAINED ON MICROFILM, ON A COMPUTER, ON COMPUTER FLOPPY DISKS, ON MAGNETIC TAPE DISKS OR ON MICROFICHE.

[40 CFR 63.1955(B), 40 CFR 63.1980(B), 40 CFR 63.10(B), 40 CFR 63.10(D)(5)(II)]

FREQUENCY	INFORMATION TO BE RECORDED
AT ALL TIMES	A. THE OCCURRENCE AND DURATION OF EACH STARTUP OR SHUTDOWN WHEN THE STARTUP OR SHUTDOWN CAUSES THE SOURCE TO EXCEED ANY APPLICABLE EMISSION LIMITATION IN THE RELEVANT EMISSION STANDARDS. B. THE OCCURRENCE AND DURATION OF EACH MALFUNCTION OF OPERATION (I.E., PROCESS EQUIPMENT) OR THE REQUIRED AIR POLLUTION CONTROL AND MONITORING EQUIPMENT. C. ALL REQUIRED MAINTENANCE PERFORMED ON THE AIR POLLUTION CONTROL AND MONITORING EQUIPMENT. D. ACTIONS TAKEN DURING PERIODS OF STARTUP, SHUTDOWN AND MALFUNCTION (INCLUDING CORRECTIVE ACTIONS TO RESTORE MALFUNCTIONING PROCESS AND AIR POLLUTION CONTROL AND MONITORING EQUIPMENT TO ITS NORMAL OR USUAL MANNER OF OPERATION) WHEN SUCH ACTIONS ARE DIFFERENT FROM THE PROCEDURES SPECIFIED IN THE AFFECTED SOURCE'S SSM PLAN. E. ALL INFORMATION NECESSARY, INCLUDING ACTIONS TAKEN, TO DEMONSTRATE CONFORMANCE WITH THE AFFECTED SOURCE'S STARTUP, SHUTDOWN, AND MALFUNCTION PLAN WHEN ALL ACTIONS TAKEN DURING PERIODS OF STARTUP OR SHUTDOWN (AND THE STARTUP OR SHUTDOWN CAUSES THE SOURCE TO EXCEED ANY APPLICABLE EMISSION LIMITATION IN THE RELEVANT EMISSION STANDARDS), AND MALFUNCTION (INCLUDING CORRECTIVE ACTIONS TO RESTORE MALFUNCTIONING PROCESS AND AIR POLLUTION CONTROL AND MONITORING EQUIPMENT TO ITS NORMAL OR USUAL MANNER OF OPERATION) ARE CONSISTENT WITH THE PROCEDURES SPECIFIED IN SUCH PLAN.

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FREQUENCY	INFORMATION TO BE RECORDED
	<p>I. THE INFORMATION NEEDED TO DEMONSTRATE CONFORMANCE WITH THE SSM PLAN MAY BE RECORDED USING A "CHECKLIST" OR SOME OTHER EFFECTIVE FORM OF RECORDKEEPING, IN ORDER TO MINIMIZE THE RECORDKEEPING BURDEN FOR CONFORMING EVENTS.</p> <p>F. EACH PERIOD DURING WHICH A CONTINUOUS MONITORING SYSTEM (CMS) IS MALFUNCTIONING OR INOPERATIVE (INCLUDING OUT-OF-CONTROL PERIODS).</p> <p>G. ALL REQUIRED MEASUREMENTS NEEDED TO DEMONSTRATE COMPLIANCE WITH A RELEVANT STANDARD (INCLUDING, BUT NOT LIMITED TO, 15-MINUTE AVERAGES OF CMS DATA, RAW PERFORMANCE TESTING MEASUREMENTS, AND RAW PERFORMANCE EVALUATION MEASUREMENTS, THAT SUPPORT DATA THAT THE SOURCE IS REQUIRED TO REPORT).</p> <p>H. ALL RESULTS OF PERFORMANCE TESTS, CMS PERFORMANCE EVALUATIONS, AND OPACITY AND VISIBLE EMISSION OBSERVATIONS.</p> <p>I. ALL MEASUREMENTS AS MAY BE NECESSARY TO DETERMINE THE CONDITIONS OF PERFORMANCE TESTS AND PERFORMANCE EVALUATIONS.</p> <p>J. ALL CMS CALIBRATION CHECKS.</p> <p>K. ALL ADJUSTMENTS AND MAINTENANCE PERFORMED ON CMS.</p> <p>L. ALL DOCUMENTATION SUPPORTING INITIAL NOTIFICATIONS AND NOTIFICATIONS OF COMPLIANCE STATUS UNDER 40 CFR 63.9.</p> <p>M. ALL REQUIRED CMS MEASUREMENTS (INCLUDING MONITORING DATA RECORDED DURING UNAVOIDABLE CMS BREAKDOWNS AND OUT-OF-CONTROL PERIODS).</p> <p>N. THE DATE AND TIME IDENTIFYING EACH PERIOD DURING WHICH THE CMS WAS INOPERATIVE EXCEPT FOR ZERO (LOW-LEVEL) AND HIGH-LEVEL CHECKS.</p> <p>O. THE DATE AND TIME IDENTIFYING EACH PERIOD DURING WHICH THE CMS WAS OUT OF CONTROL, AS DEFINED IN 40 CFR 63.8(C)(7).</p> <p>P. THE SPECIFIC IDENTIFICATION (I.E., THE DATE AND TIME OF COMMENCEMENT AND COMPLETION) OF EACH PERIOD OF EXCESS EMISSIONS AND PARAMETER MONITORING EXCEEDANCES, AS DEFINED IN THE RELEVANT STANDARD(S), THAT OCCURS DURING STARTUPS, SHUTDOWNS, AND MALFUNCTIONS OF THE AFFECTED SOURCE.</p> <p>Q. THE SPECIFIC IDENTIFICATION (I.E., THE DATE AND TIME OF COMMENCEMENT AND COMPLETION) OF EACH TIME PERIOD OF EXCESS EMISSIONS AND PARAMETER MONITORING EXCEEDANCES, AS DEFINED IN THE RELEVANT STANDARD(S), THAT OCCURS DURING PERIODS OTHER THAN STARTUPS, SHUTDOWNS, AND MALFUNCTIONS OF THE AFFECTED SOURCE.</p> <p>R. THE NATURE AND CAUSE OF ANY MALFUNCTION (IF KNOWN).</p> <p>S. THE CORRECTIVE ACTION TAKEN OR PREVENTIVE MEASURES ADOPTED.</p> <p>T. THE NATURE OF THE REPAIRS OR ADJUSTMENTS TO THE CMS THAT WAS INOPERATIVE OR OUT OF CONTROL.</p>

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FREQUENCY	INFORMATION TO BE RECORDED
	<p>U. THE TOTAL PROCESS OPERATING TIME DURING THE REPORTING PERIOD.</p> <p>V. ALL PROCEDURES THAT ARE PART OF A QUALITY CONTROL PROGRAM DEVELOPED AND IMPLEMENTED FOR CMS UNDER 40 CFR 63.8(D).</p>

EMISSION REDUCTION CREDIT (ERC) REQUIREMENTS

23. THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 27) ROC ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM ROC EMISSIONS:

EQUIPMENT	AMOUNT OF ROC EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	3726	3768	3809	3809

24. **FOR SMAQMD RULE 202 NEW SOURCE REVIEW PURPOSES:**

THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 28) NO_x ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM NO_x EMISSIONS:

EQUIPMENT	AMOUNT OF NO _x EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	20,484	20,711	20,938	20,938

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25. FOR U.S. EPA POLLUTION CONTROL PROJECT PURPOSES:

THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 29) NO_x ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM NO_x EMISSIONS:

EQUIPMENT	AMOUNT OF NO _x EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED (A) (B) TONS/YEAR
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	87.5

- (A) THE REQUIREMENT FOR THESE ERCS IS A RESULT OF U.S. EPA'S POLLUTION CONTROL PROJECT OFFSETTING POLICY:
- I. U.S. EPA EXCLUDES THE PROJECT FROM FEDERAL NEW SOURCE REVIEW RULES IF IT QUALIFIES AS A POLLUTION CONTROL PROJECT.
 - II. THE PROJECT QUALIFIES AS A POLLUTION CONTROL PROJECT IF IT IS ENVIRONMENTALLY BENEFICIAL.
 - III. THE PROJECT IS ENVIRONMENTALLY BENEFICIAL IF ALL NO_x EMISSIONS FROM THE PROJECT ARE OFFSET.
- (B) THE AMOUNT OF ERCS TO BE PROVIDED IS NOT IN ADDITION TO THE AMOUNT SPECIFIED IN CONDITION NO. 24.

26. THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 30) PM10 ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM PM10 EMISSIONS:

EQUIPMENT	AMOUNT OF PM10 EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	5,799	5,909	6,016	6,016

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27. THE FOLLOWING ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENTS AS STATED IN CONDITION NO. 23:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				OFFSET RATIO	VALUE APPLIED TO THE PROJECT ROC EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4		QTR 1	QTR 2	QTR 3	QTR 4
C101005 SMAQMD COMMUNITY BANK LEASE EXPIRES ON: 12/31/2014 (A)	3726	3768	3809	3809	1:1	3726	3768	3809	3809

- (A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:

1. THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (2) BELOW.
2. WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.
 - (A) THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.
 - (B) ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:
 - (1) THE ORIGINALLY SPECIFIED AMOUNT, OR
 - (2) THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.
3. FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

28. THE FOLLOWING NO_x/ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENT AS STATED IN CONDITION NO. 24:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4			QTR 1	QTR 2	QTR 3	QTR 4
98-00470 RANCHO SECO ICE NO _x	1,448	1,448	1,448	1,448	N/A	1.3:1	1,114	1,114	1,114	1,114
98-00472 RANCHO SECO ICE NO _x	1,160	1,160	1,160	1,160	N/A	1.3:1	892	892	892	892

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EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4			QTR 1	QTR 2	QTR 3	QTR 4
98-00474 RANCHO SECO ICE NO _x	2,250	2,250	2,250	2,250	N/A	1.3:1	1,731	1,731	1,731	1,731
98-00476 RANCHO SECO ICE NO _x	2,727	2,727	2,727	2,727	N/A	1.3:1	2,098	2,098	2,098	2,098
98-00478 RANCHO SECO BOILER NO _x	12,089	4,193	719	4,529	N/A	1.3:1	9,299	3,225	553	3,484
EC-0002 YOLO-SOLANO APCD SPRECKLES SUGAR NO _x	0	4,884	2,719	3,539	N/A	1.5:1	0	3,256	1,813	2,359
EC-0004 YOLO-SOLANO APCD SPRECKLES SUGAR NO _x	0	0	6,175	958	N/A	1.5:1	0	0	4,117	639
98-00004 PLACER COUNTY APCD FORMICA CORPORATION ROC	16,050	25,185	25,863	25,865	2.0:1	1.5:1	5,350	8,395	8,621	8,622
TOTAL							20,484	20,711	20,938	20,938

29. THE FOLLOWING NO_x/ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE U.S. EPA REQUIREMENT STATED IN CONDITION NO. 25:

THE PROPOSED LEASED ERCS MUST BE ACQUIRED BY 01-01-2012
OR THE OPERATION OF THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM
WILL BE IN VIOLATION OF SMAQMD RULE 202 - NEW SOURCE REVIEW

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY TON/YEAR
	QTR 1	QTR 2	QTR 3	QTR 4			
99-00649 POPPY RIDGE NO _x	4,089	6,029	6,132	4,259	N/A	1.0:1	10.25

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EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY TON/YEAR
	QTR 1	QTR 2	QTR 3	QTR 4			
01-00752 POPPY RIDGE NO _x	522	391	36	457	N/A	1.0:1	0.70
01-00752 POPPY RIDGE NO _x	715	715	715	715	N/A	1.0:1	1.43
98-00470 RANCHO SECO ICE NO _x	1,448	1,448	1,448	1,448	N/A	1.0:1	2.90
98-00472 RANCHO SECO ICE NO _x	1,160	1,160	1,160	1,160	N/A	1.0:1	2.32
98-00474 RANCHO SECO ICE NO _x	2,250	2,250	2,250	2,250	N/A	1.0:1	4.50
98-00476 RANCHO SECO ICE NO _x	2,727	2,727	2,727	2,727	N/A	1.0:1	5.45
98-00478 RANCHO SECO BOILER NO _x	12,089	4,193	719	4,529	N/A	1.0:1	10.77
EC-0002 YOLO-SOLANO APCD SPRECKLES SUGAR NO _x	0	4,884	2,719	3,539	N/A	1.0:1	5.57
EC-0004 YOLO-SOLANO APCD SPRECKLES SUGAR NO _x	0	0	6,175	958	N/A	1.0:1	3.57
98-00004 PLACER APCD FORMICA CORPORATION ROC	16,848	35,070	43,089	34,296	2.0:1	1.0:1	32.33

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EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY TON/YEAR
	QTR 1	QTR 2	QTR 3	QTR 4			
P07-1005 ESSENTIAL PUBLIC SERVICES ACCOUNT SMAQMD PRIORITY RESERVE BANK LEASE EXPIRES ON: 01/01/2012 (A) NO _x	4,588	2,890	3,252	4,704	N/A	1.0:1	7.72
P11-1008 ESSENTIAL PUBLIC SERVICES ACCOUNT SMAQMD PRIORITY RESERVE BANK LEASE EXPIRES ON: 01/01/2015 (A) NO _x	4,588	2,890	3,252	4,704	N/A	1.0:1	7.72
TOTAL							87.5

(A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:

- I. THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (II) BELOW.
- II. WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.
 - A. THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.
 - B. ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:
 - (1) THE ORIGINALLY SPECIFIED AMOUNT, OR
 - (2) THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.
- III. FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

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30. THE FOLLOWING PM10 ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENT AS STATED IN CONDITION NO. 26:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF PM10 ERC CERTIFICATES SURRENDERED LB/QUARTER				OFFSET RATIO	VALUE APPLIED TO THE PROJECT PM10 EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4		QTR 1	QTR 2	QTR 3	QTR 4
2005-03 PLACER COUNTY APCD LINCOLN BRAND FEEDS	4329	4446	4558.5	4558.5	1.5:1	2886	2964	3039	3039
2005-06 PLACER COUNTY APCD LINCOLN BRAND FEEDS	2425	2308	2195.5	2195.5	1.5:1	1616.7	1538.7	1463.7	1463.7
C053003 SMAQMD COMMUNITY BANK LEASE EXPIRES ON: 07/01/2035 (A)	1296.3	1406.3	1513.3	1513.3	1.0:1	1296.3	1406.3	1513.3	1513.3
TOTAL						5799	5909	6016	6016

- (A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:
- I. THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (II) BELOW.
 - II. WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.
 - A. THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.
 - B. ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:
 - (1) THE ORIGINALLY SPECIFIED AMOUNT, OR
 - (2) THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.
 - III. FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

EMISSION TESTING REQUIREMENTS

31. AN EMISSION TEST SHALL BE CONDUCTED EACH CALENDAR YEAR TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 7, 8, 9, 10 AND 15:

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- A. SUBMIT A SOURCE TEST PLAN TO THE SMAQMD AIR POLLUTION CONTROL OFFICER FOR APPROVAL AT LEAST 30 DAYS BEFORE THE SOURCE TEST IS TO BE PERFORMED.
- B. NOTIFY THE SMAQMD AIR POLLUTION CONTROL OFFICER AT LEAST 7 DAYS PRIOR TO THE SOURCE TEST DATE.
- C. SUBMIT THE SOURCE TEST REPORT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER WITHIN 60 DAYS FROM THE COMPLETION OF THE SOURCE TEST.
- D. THE SOURCE TEST SHALL BE CONDUCTED AT THE EXHAUST OF THE LANDFILL GAS FLARE (EXCEPT FOR HYDROGEN SULFIDE TEST WHICH SHALL USE THE INLET) AND SHALL INCLUDE A TEST FOR:
 - 1. EITHER:
 - A. NMOC DESTRUCTION EFFICIENCY, OR
 - B. TOTAL NMOC (PPMVD AT 3% O₂ MEASURED AS HEXANE)
 - 2. NITROGEN OXIDES, NO_x
 - 3. CARBON MONOXIDE, CO
 - 4. PARTICULATE MATTER, PM₁₀
 - 5. HYDROGEN SULFIDE, H₂S (INLET)
 - 6. COMBUSTION TEMPERATURE (AS MEASURED BY THE THERMOCOUPLE REQUIRED BY CONDITION NO. 14)
 - 7. LANDFILL GAS FLOW RATE
- E. THE SMAQMD AIR POLLUTION CONTROL OFFICER MAY WAIVE THE ANNUAL SOURCE TEST REQUIREMENT FOR PM₁₀ IF, IN THE SMAQMD AIR POLLUTION CONTROL OFFICER'S SOLE JUDGMENT, PREVIOUS SOURCE TEST RESULTS INDICATE THAT AN ADEQUATE COMPLIANCE MARGIN HAS BEEN MAINTAINED.
- F. COMPLIANCE WITH THE NO_x EMISSION LIMIT SHALL BE DETERMINED USING ONE OF THE FOLLOWING SOURCE TEST METHODS:
 - 1. CARB METHOD 100;
 - 2. U.S. EPA METHOD 7E; OR
 - 3. ANY OTHER METHOD APPROVED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY AND THE SMAQMD AIR POLLUTION CONTROL OFFICER.

RACT DETERMINATION REQUIREMENTS

- 32. THIS PERMIT TO OPERATE INCORPORATES A REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT) DETERMINATION AS REQUIRED BY THE FEDERAL CLEAN AIR ACT (AS AMENDED 1990) SECTIONS 182(B)(2) AND 182(F).
- 33. THE EXPIRATION DATE SHOWN ON THIS PERMIT TO OPERATE IS FOR STATE OF CALIFORNIA PURPOSES. FOR FEDERAL ENFORCEMENT PURPOSES THE RACT PROVISIONS OF THIS PERMIT THAT ARE APPROVED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY SHALL REMAIN IN EFFECT AS PART OF THE STATE OF CALIFORNIA IMPLEMENTATION PLAN (SIP) UNTIL REPLACED PURSUANT TO 40 CFR 51 AND APPROVED BY THE U.S. EPA.

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YOUR APPLICATION FOR THIS AIR QUALITY AUTHORITY TO CONSTRUCT WAS EVALUATED FOR COMPLIANCE WITH SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT (AQMD), STATE AND FEDERAL AIR QUALITY RULES. THE FOLLOWING LISTED RULES ARE THOSE THAT ARE MOST APPLICABLE TO THE OPERATION OF YOUR EQUIPMENT. OTHER RULES MAY ALSO BE APPLICABLE.

<u>AQMD RULE NO.</u>	<u>RULE TITLE</u>
201	GENERAL PERMIT REQUIREMENTS
202	NEW SOURCE REVIEW
301	STATIONARY SOURCE PERMIT FEES
401	RINGELMANN CHART
402	NUISANCE
406	SPECIFIC CONTAMINANTS
420	SULFUR CONTENT FO FUELS
801 AND U.S. EPA NSPS	40 CFR PART 60 SUBPART WWW NEW SOURCE PERFORMANCE STANDARDS FOR MUNICIPAL SOLID WASTE LANDFILLS
U.S. EPA NESHAP	40 CFT PART 63 SUBPART AAAA NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR MUNICIPAL SOLID WASTE LANDFILLS

IN ADDITION, THE CONDITIONS ON THIS AUTHORITY TO CONSTRUCT MAY REFLECT SOME, BUT NOT ALL, REQUIREMENTS OF THESE RULES. THERE MAY BE OTHER CONDITIONS THAT ARE APPLICABLE TO THE OPERATION OF YOUR EQUIPMENT. FUTURE CHANGES IN PROHIBITORY RULES MAY ESTABLISH MORE STRINGENT REQUIREMENTS WHICH MAY SUPERSEDE THE CONDITIONS LISTED HERE.

FOR FURTHER INFORMATION PLEASE CONSULT YOUR AQMD RULEBOOK OR CONTACT THE AQMD FOR ASSISTANCE.

AIR QUALITY**MANAGEMENT DISTRICT****AUTHORITY TO CONSTRUCT****A/C NO.:** 23111**ISSUED BY:**
FELIX TRUJILLO, JR.**DATE ISSUED:** DECEMBER 6, 2011**DATE EXPIRES:** DECEMBER 6, 2013**ISSUED TO:** KIEFER LANDFILL, DEPARTMENT OF WASTE MANAGEMENT AND RECYCLING,
COUNTY OF SACRAMENTO**LOCATION:** 12701 KIEFER BOULEVARD, SLOUGHOUSE, CA 95683**DESCRIPTION:** MODIFICATION OF AIR POLLUTION CONTROL LANDFILL GAS FLARE NO. 2 (P/O
21097) TO RENEW EXPIRING 7.72 TONS NO_x/YEAR OF ERCS FOR THREE
MORE YEARS.**AUTHORITY TO CONSTRUCT CONDITIONS****START-UP REQUIREMENTS**

- S1. UPON INSTALLATION OF THE EQUIPMENT AUTHORIZED IN THIS AUTHORITY TO CONSTRUCT, THE OWNER/OPERATOR SHALL CONTACT THE SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT (SMAQMD) AT (916) 874-4800 TO ARRANGE FOR A START-UP INSPECTION.
- S2. THIS AUTHORITY TO CONSTRUCT SHALL SERVE AS A TEMPORARY PERMIT TO OPERATE PROVIDED THAT:
 - A. THE SMAQMD HAS BEEN NOTIFIED TO CONDUCT A START-UP INSPECTION.
 - B. THE EQUIPMENT INSTALLED MATCHES THE EQUIPMENT AUTHORIZED IN THIS AUTHORITY TO CONSTRUCT.
 - C. THE EQUIPMENT IS OPERATED IN COMPLIANCE WITH ALL CONDITIONS LISTED WITHIN THIS AUTHORITY TO CONSTRUCT.
- S3. THE OWNER OR OPERATOR OF A THE STATIONARY SOURCE SHALL SUBMIT TO THE AIR POLLUTION CONTROL OFFICER A COMPLETE TITLE V PERMIT APPLICATION FOR MINOR TITLE V PERMIT MODIFICATION PRIOR TO COMMENCING OPERATION ASSOCIATED WITH THE MINOR TITLE V PERMIT MODIFICATION.

GENERAL

1. THE EQUIPMENT SHALL BE PROPERLY MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AT ALL TIMES.
2. THE AIR POLLUTION CONTROL OFFICER AND/OR AUTHORIZED REPRESENTATIVES, UPON THE PRESENTATION OF CREDENTIALS SHALL BE PERMITTED:
 - A. TO ENTER UPON THE PREMISES WHERE THE SOURCE IS LOCATED OR IN WHICH ANY RECORDS ARE REQUIRED TO BE KEPT UNDER THE TERMS AND CONDITIONS OF THIS AUTHORITY TO CONSTRUCT, AND
 - B. AT REASONABLE TIMES TO HAVE ACCESS TO AND COPY ANY RECORDS REQUIRED TO BE KEPT UNDER TERMS AND CONDITIONS OF THIS AUTHORITY TO CONSTRUCT, AND
 - C. TO INSPECT ANY EQUIPMENT, OPERATION, OR METHOD REQUIRED IN THIS AUTHORITY TO CONSTRUCT, AND
 - D. TO SAMPLE EMISSIONS FROM THE SOURCE OR REQUIRE SAMPLES TO BE TAKEN.

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3. THIS AUTHORITY TO CONSTRUCT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26, PART 4, CHAPTER 3, OF THE CALIFORNIA HEALTH AND SAFETY CODE OR THE RULES AND REGULATIONS OF THE AIR QUALITY MANAGEMENT DISTRICT.
4. THE EQUIPMENT SHALL NOT DISCHARGE SUCH QUANTITIES OF AIR CONTAMINANTS OR OTHER MATERIALS WHICH CAUSE INJURY, DETRIMENT, NUISANCE OR ANNOYANCE TO ANY CONSIDERABLE NUMBER OF PERSONS OR TO THE PUBLIC, OR WHICH ENDANGER THE COMFORT, REPOSE, HEALTH, OR SAFETY OF ANY SUCH PERSONS OR THE PUBLIC, OR WHICH CAUSE, OR HAVE A NATURAL TENDENCY TO CAUSE, INJURY OR DAMAGE TO BUSINESS OR PROPERTY.
5. A LEGIBLE COPY OF THIS AUTHORITY TO CONSTRUCT SHALL BE MAINTAINED ON THE PREMISES WITH THE EQUIPMENT.

EMISSION LIMITATIONS

6. LANDFILL GAS FLARE NO. 2 SHALL NOT DISCHARGE INTO THE ATMOSPHERE ANY VISIBLE AIR CONTAMINANTS OTHER THAN UNCOMBINED WATER VAPOR, FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR, WHICH ARE AS DARK OR DARKER THAN RINGELMANN NO. 1 OR EQUIVALENT TO OR GREATER THAN 20% OPACITY.
7. EMISSIONS FROM LANDFILL GAS FLARE NO. 2 SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	MAXIMUM ALLOWABLE EMISSIONS
ROC (A)	A. 2% OF INLET NMOC (EQUIVALENT TO A 98% NMOC DESTRUCTION EFFICIENCY), OR B. 20 PPMVD AT 3% O2 MEASURED AS HEXANE
NO _x (B)	C. 25 LB/MMFT3 OF LANDFILL GAS FUEL [EQUIVALENT TO 0.05 LB/MMBTU AT 500 BTU/FT3 OF LFG]
SO ₂ (C) (D)	D. 20 LB/MMFT3 OF LANDFILL GAS FUEL [EQUIVALENT TO 0.04 LB/MMBTU AT 500 BTU/FT3 OF LFG] [EQUIVALENT TO 7.4 GRAINS OF S (MEASURED AS H ₂ S)/100 FT3 OF LFG COMBUSTED]
PM ₁₀ (C)	E. 7.35 LB/MMFT3 OF LANDFILL GAS FUEL [EQUIVALENT TO 0.0147LB/MMBTU AT 500 BTU/FT3 OF LFG]
CO (B)	F. 75 LB/MMFT3 OF LANDFILL GAS FUEL [EQUIVALENT TO 0.15 LB/MMBTU AT 500 BTU/FT3 OF LFG]

- (A) U.S. EPA NEW SOURCE PERFORMANCE STANDARD (NSPS) REQUIREMENT (40 CFR 60 SUBPART WWW) AND U.S. EPA NATIONAL EMISSION STANDARD FOR HAZARDOUS POLLUTANTS (NESHAP) REQUIREMENT (40 CFR 63 SUBPART AAAA).
- (B) PERMITTEE REQUESTED EMISSION LIMIT THAT IS MORE RESTRICTIVE THAN THE SMAQMD BACT EMISSION LIMIT.
- (C) SMAQMD BACT DETERMINATION.
- (D) THE PERMITTEE SHALL SUBMIT AN AUTHORITY TO CONSTRUCT APPLICATION TO THE SMAQMD IF SOURCE TESTING INDICATES THAT SO₂ MASS EMISSIONS EXCEED THE PERMIT LIMIT. THE AUTHORITY TO CONSTRUCT APPLICATION SHALL BE SUBMITTED WITHIN 45 DAYS OF THE SMAQMD RECEIVING SOURCE TEST RESULTS INDICATING THAT SO₂ MASS EMISSIONS EXCEED THE PERMIT LIMIT. EXCEEDANCE OF THE PERMIT LIMIT SHALL BE A PERMIT VIOLATION ONLY IF AN AUTHORITY TO CONSTRUCT APPLICATION IS NOT RECEIVED WITHIN THE 45 DAY PERIOD.

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8. EMISSIONS FROM LANDFILL GAS FLARE NO. 2 SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	EMISSION FACTOR LB/MMFT3 OF LFG	MAXIMUM ALLOWABLE EMISSIONS (G)				
		DAILY LB/DAY	QUARTER 1 (90 DAYS) LB/QUARTER	QUARTER 2 (91 DAYS) LB/QUARTER	QUARTERS 3 & 4 (92 DAYS) LB/QUARTER	YEARLY LB/YEAR
ROC	13.7 (A)	78.9	7102	7181	7260	28,803
NOX	25 (B)	144.0	12960	13104	13248	52,560
SO ₂	20 (C)	115.2	10368	10483	10598	42,047
PM10	7.35 (D)	42.3	3810	3853	3895	15,453
CO	75 (E)	432.0	38880	39312	39744	157,680
GHG (F)	55.06 LB/MCF	158.6 TON/DAY	14,274 TON/QTR	14,433 TON/QTR	14,591 TON/QTR	57,889 TON/YR
GHG (F)	0.001 LB/MCF	0.003 TON/DAY	0.3 TON/QTR	0.3 TON/QTR	0.3 TON/QTR	1.2 TON/YEAR

(A) EMISSION FACTOR FOR ROC IS BASED ON -

- I. A LANDFILL GAS NMOC CONCENTRATION OF 7,857 PPMV (AS HEXANE), [ESTABLISHED FROM HIGHEST CONCENTRATION OF 17 CO-DISPOSAL SITES, AVERAGE IS 1,849.8 PPM, REFERENCE: TABLE 3-5, *AIR EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS - BACKGROUND INFORMATION FOR PROPOSED STANDARDS AND GUIDELINES*, OFFICE OF AIR QUALITY PLANNING AND STANDARDS, RESEARCH TRIANGLE PARK, U.S. ENVIRONMENTAL PROTECTION AGENCY, EPA-450/3-90-011A, MARCH 1991]
- II. 39% OF TOTAL NMOC IS ROC,
- III. MW OF NMOC (AS HEXANE) IS 86.18 AND
- IV. 98% DESTRUCTION EFFICIENCY.

(B) EMISSION FACTOR FOR NO_x IS BASED ON PERMITTEE'S REQUEST OF 0.05 LB/MMBTU (EQUIVALENT TO 25 LB/MMFT3 AT 500 BTU/FT3 OF LFG).(C) EMISSION FACTOR FOR SO₂ IS BASED ON A SMAQMD BACT DETERMINATION OF 0.04 LB/MMBTU (EQUIVALENT TO 20 LB/MMFT3 AT 500 BTU/FT3 OF LFG).

(D) EMISSION FACTOR FOR PM10 IS BASED ON A SMAQMD BACT DETERMINATION OF 0.0147 LB/MMBTU (EQUIVALENT TO 7.35 LB/MMFT3 AT 500 BTU/FT3 OF LFG).

(E) EMISSION FACTOR FOR CO BASED ON PERMITTEE'S REQUEST OF 0.15 LB/MMBTU (EQUIVALENT TO 75 LB/MMFT3 AT 500 BTU/FT3 OF LFG).

(F) THE POTENTIAL TO EMIT FOR GHG IS BASED ON THE BEST AVAILABLE CO₂E EMISSION FACTOR AT THE TIME THE PERMIT ACTION WAS TAKEN AND THE MAXIMUM ALLOWED FUEL USAGE RATE OF 4,000 SCFM. SHOULD THE EMISSION FACTOR CHANGE, THE POTENTIAL TO EMIT WILL BE MODIFIED ACCORDINGLY.

THE EMISSION FACTOR FOR TOTAL GHG (55.06 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES COMBUSTION BYPRODUCTS (CH₄, CO₂ AND N₂O) BUT IT DOES NOT INCLUDE PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

THE EMISSION FACTOR NOT NON-BIOGENIC GHG (0.001 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2,

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SECTIONS 95100 TO 95133). IT INCLUDES THE NON-CO₂ COMBUSTION BYPRODUCTS (CH₄, AND N₂O) BUT IT DOES NOT INCLUDE COMBUSTION CO₂ OR PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

(G) MASS EMISSIONS ARE BASED ON 4,000 FT³/MIN. LFG COMBUSTION RATE, 500 BTU/FT³ OF LFG, 24 HOURS/DAY AND THE NUMBER OF DAYS IN EACH CALENDAR QUARTER. YEARLY EMISSIONS ARE EQUAL TO THE CUMMULATIVE QUARTERLY EMISSIONS.

9. A. COMBINED EMISSIONS FROM THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM EQUIPMENT (FIVE IC ENGINES AND TWO FLARES) SHALL NOT EXCEED THE FOLLOWING:

A/C 23110 LANDFILL GAS FLARE NO. 1 AND
 A/C 23111 LANDFILL GAS FLARE NO. 2 AND
 A/C 23112 IC ENGINE NO. 1 AND
 A/C 23113 IC ENGINE NO. 2 AND
 A/C 23114 IC ENGINE NO. 3 AND
 A/C 23115 IC ENGINE NO. 4 AND
 A/C 23116 IC ENGINE NO. 5

POLLUTANT	MAXIMUM ALLOWABLE EMISSIONS (B)				
	QUARTER 1 LB/QUARTER	QUARTER 2 LB/QUARTER	QUARTER 3 LB/QUARTER	QUARTER 4 LB/QUARTER	ANNUALLY TON/YEAR
ROC	34,573	34,958	35,320	35,320	70.1
NO _x	43,151	43,631	44,110	44,110	87.5
SO _x	44,698	45,195	45,715	45,715	90.7
PM ₁₀	13,350	13,501	13,648	13,648	27.1
CO	219,798	222,258	224,715	224,715	445.7
GHG (A)	37,356 TON/QTR	37,770 TON/QTR	38,186 TON/QTR	38,186 TON/QTR	151,498
GHG (A)	0.7 TON/QTR	0.7 TON/QTR	0.7 TON/QTR	0.7 TON/QTR	2.8

- (A) THE POTENTIAL TO EMIT FOR GHG IS BASED ON THE BEST AVAILABLE CO₂E EMISSION FACTOR AT THE TIME THE PERMIT ACTION WAS TAKEN AND THE MAXIMUM ALLOWED FUEL USAGE RATE (10,470 CFM; 5,000 CFM FOR THE FLARES AND 5,470 CFM FOR THE ENGINES). SHOULD THE EMISSION FACTOR CHANGE, THE POTENTIAL TO EMIT WILL BE MODIFIED ACCORDINGLY.

THE EMISSION FACTOR FOR TOTAL GHG (55.06 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES COMBUSTION BYPRODUCTS (CH₄, CO₂ AND N₂O) BUT IT DOES NOT INCLUDE PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

THE EMISSION FACTOR NOT NON-BIOGENIC GHG (0.001 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES THE NON-CO₂ COMBUSTION BYPRODUCTS (CH₄, AND N₂O) BUT IT DOES NOT INCLUDE COMBUSTION CO₂ OR PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

- (B) QUARTERLY EMISSIONS ARE BASED ON 24 HOURS/DAY AND THE ACTUAL NUMBER OF DAYS IN EACH CALENDAR QUARTER. ANNUAL EMISSIONS ARE THE SUM OF THE QUARTERLY EMISSIONS.

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- B. COMBINED EMISSIONS FROM THE FIVE IC ENGINES ONLY (EXCLUDING THE FLARE) SHALL NOT EXCEED THE FOLLOWING:

A/C 23112 IC ENGINE NO. 1 AND
A/C 23113 IC ENGINE NO. 2 AND
A/C 23114 IC ENGINE NO. 3 AND
A/C 23115 IC ENGINE NO. 4 AND
A/C 23116 IC ENGINE NO. 5

POLLUTANT	MAXIMUM ANNUAL ALLOWABLE EMISSIONS (A) TONS/YEAR
NO _x	79.8

- (A) THE NO_x EMISSIONS FROM THE FIVE IC ENGINES ARE LIMITED BY THE AMOUNT OF ERCS PROVIDED FROM SOURCES OTHER THAN THE SMAQMD PRIORITY RESERVE BANK ESSENTIAL PUBLIC SERVICES ACCOUNT. THE 7.72 TONS OF NO_x ERCS LEASED FROM THE ESSENTIAL PUBLIC SERVICES ACCOUNT (SEE CONDITION NO. 25) ARE NOT ALLOWED TO BE USED FOR ON-SITE POWER GENERATION BY SMAQMD RULE 205 SECTION 102.1.

EQUIPMENT OPERATION REQUIREMENTS

10. THE CONCENTRATION OF SULFUR COMPOUNDS (MEASURED AS HYDROGEN SULFIDE) IN THE LANDFILL GAS COMBUSTED IN THE LANDFILL GAS FLARE NO. 2 SHALL NOT EXCEED 7.4 GRAINS PER 100 CUBIC FEET. (SMAQMD BACT DETERMINATION)
11. A SAMPLING PORT, OR OTHER METHOD APPROVED BY THE SMAQMD AIR POLLUTION CONTROL OFFICER, SHALL BE INSTALLED AT THE INLET LANDFILL GAS LINE TO LANDFILL GAS FLARE NO. 2. THE SAMPLING PORT SHALL BE LOCATED SO THAT AN ACCURATE VOLUME FLOW MEASUREMENT CAN BE PERFORMED.
12. LANDFILL GAS FLARE NO. 2 EXHAUST SAMPLE PORTS SHALL BE PERMANENT, ACCESSIBLE AND LOCATED AND CONSTRUCTED AS PER APPLICABLE U.S. EPA, CARB AND U.S. OSHA REQUIREMENTS.
13. A LANDFILL GAS FLOWRATE MEASURING DEVICE THAT PROVIDES A MEASUREMENT OF LANDFILL GAS FLOW TO LANDFILL GAS FLARE NO. 2 SHALL BE INSTALLED, CALIBRATED AND MAINTAINED.
- A. THE LANDFILL GAS FLOWRATE MEASURING DEVICE SHALL RECORD THE FLOW TO LANDFILL GAS FLARE NO. 2 AT LEAST EVERY 15 MINUTES.
- B. THE OWNER OR OPERATOR SHALL SUBMIT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER FOR APPROVAL A DESCRIPTION OF THE LANDFILL GAS FLOWRATE MEASURING DEVICE CALIBRATION PROCEDURE AND SCHEDULE OF CALIBRATION.
14. LANDFILL GAS FLARE NO. 2 SHALL BE EQUIPPED WITH A TEMPERATURE MONITORING DEVICE.
- A. THE THERMOCOUPLE USED TO MEASURE LANDFILL GAS FLARE NO. 2 TEMPERATURE SHALL BE LOCATED AT A DISTANCE THAT IS GREATER THAN THE DISTANCE EQUIVALENT TO 0.6 SECONDS AT THE MAXIMUM FLOW RATE DOWNSTREAM OF THE BURNER.
- B. THE TEMPERATURE MONITORING DEVICE SHALL BE EQUIPPED WITH A CONTINUOUS RECORDER.
- C. THE TEMPERATURE MONITORING DEVICE SHALL HAVE AN ACCURACY OF ± 1 PERCENT OF THE TEMPERATURE BEING MEASURED EXPRESSED IN DEGREES CELSIUS OR ± 0.5 DEGREES C, WHICHEVER IS GREATER.

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- D. THE TEMPERATURE MONITORING DEVICE IS NOT PRECLUDED FROM EXPRESSING MEASUREMENTS IN DEGREES FAHRENHEIT AS LONG AS THE AFOREMENTIONED ACCURACY IS MET.
- E. THE OWNER OR OPERATOR SHALL SUBMIT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER FOR APPROVAL A DESCRIPTION OF THE TEMPERATURE MONITORING DEVICE CALIBRATION PROCEDURE AND SCHEDULE OF CALIBRATION.
15. LANDFILL GAS FLARE NO. 2 SHALL OPERATE AT A MINIMUM COMBUSTION ZONE TEMPERATURE NO LESS THAN THE 3-HOUR AVERAGE TEMPERATURE (MEASURED BY THE THERMOCOUPLE SPECIFIED IN CONDITION NO. 14) AS DETERMINED DURING THE MOST RECENT COMPLYING SOURCE TEST MINUS 28 DEGREES C (50 DEGREES F).
- (THE DATA FROM THE MOST RECENT SOURCE TEST IS SUMMARIZED IN ATTACHMENT A INDICATING THE 3-HOUR AVERAGE TEMPERATURE MEASURED BY THE THERMOCOUPLE REQUIRED BY CONDITION NO. 14.)
16. THE LANDFILL GAS CONDENSATE INJECTION RATE FOR LANDFILL GAS FLARE NO. 2 SHALL NOT EXCEED 4 GALLONS/MINUTE.

RECORDKEEPING AND REPORTING REQUIREMENTS

17. THE FOLLOWING RECORDS SHALL BE CONTINUOUSLY MAINTAINED ON SITE FOR THE MOST RECENT 5 YEAR PERIOD, EXCEPT AS NOTED, AND SHALL BE MADE AVAILABLE TO THE SMAQMD AIR POLLUTION CONTROL OFFICER UPON REQUEST. QUARTERLY AND ANNUAL RECORDS SHALL BE MADE AVAILABLE FOR INSPECTION WITHIN 30 DAYS OF THE END OF THE REPORTING PERIOD.

FREQUENCY	INFORMATION TO BE RECORDED
AT ALL TIMES	<p>A. THE FOLLOWING INFORMATION MEASURED DURING THE INITIAL PERFORMANCE TEST SHALL BE MAINTAINED FOR THE LIFE OF LFG FLARE NO. 2. RECORDS OF SUBSEQUENT TESTS OR MONITORING SHALL BE MAINTAINED FOR A MINIMUM OF 5 YEARS. [40 CFR 60.758(B)]</p> <p>I. LFG FLARE NO. 2 AVERAGE COMBUSTION TEMPERATURE MEASURED AT LEAST EVERY 15 MINUTES AND AVERAGED OVER THE SAME TIME PERIOD AS THE PERFORMANCE TEST. [40 CFR 60.758(B)(2)(I)]</p> <p>II. THE PERCENT REDUCTION OF NMOC, DETERMINED AS SPECIFIED IN 40 CFR 60.752(B)(2)(III)(B), ACHIEVED BY LFG FLARE NO. 2. [40 CFR 60.758(B)(2)(II)]</p> <p>B. CONTINUOUSLY MONITORED LANDFILL GAS FLOWRATE TO LFG FLARE NO. 2 AS REQUIRED BY CONDITION NO. 13.</p> <p>C. CONTINUOUSLY MONITORED COMBUSTION TEMPERATURE OF LFG FLARE NO. 2 AS REQUIRED BY CONDITION NO. 14.</p> <p>D. ALL 3 HOUR PERIODS OF OPERATION DURING WHICH LFG FLARE NO. 2 AVERAGE COMBUSTION TEMPERATURE WAS BELOW THE LIMIT ESTABLISHED IN CONDITION NO. 15. [40 CFR 60.758(C)(1)(I)]</p> <p>E. RECORDS OF CALIBRATION REPORTS FOR THE LANDFILL GAS FLOWRATE MONITORING DEVICE.</p> <p>F. RECORDS OF CALIBRATION REPORTS FOR THE TEMPERATURE MONITORING DEVICE.</p>

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FREQUENCY	INFORMATION TO BE RECORDED
	G. RECORDS OF SOURCE TEST PLANS AND RESULTS THAT VERIFY LFG FLARE NO. 2 COMPLIANCE WITH THE EMISSION LIMITS IN CONDITION NO. 7.
QUARTERLY	H. COMPARISON OF THE ACTUAL EMISSIONS FROM THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM EQUIPMENT (5 IC ENGINES AND 2 LFG FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 9.A. (LB/QUARTER)
ANNUALLY	I. COMPARISON OF THE ACTUAL EMISSIONS FROM THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM EQUIPMENT (5 IC ENGINES AND 2 LFG FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 9.A. (TONS/YEAR) J. COMPARISON OF THE ACTUAL EMISSIONS FROM THE 5 IC ENGINES ONLY (EXCLUDING THE FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 9.B. (TONS/YEAR)

18. A WRITTEN REPORT SHALL BE SUBMITTED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER ANNUALLY BY THE DATE INDICATED AND SHALL CONTAIN THE FOLLOWING INFORMATION.

FREQUENCY	INFORMATION TO BE SUBMITTED
ANNUALLY BY: JANUARY 31 FOR THE PREVIOUS CALENDAR YEAR	A. ALL 3 HOUR PERIODS OF OPERATION DURING WHICH LFG FLARE NO. 2 AVERAGE COMBUSTION TEMPERATURE WAS BELOW THE LIMIT ESTABLISHED IN CONDITION NO. 15. [40 CFR 60.758(C)(1)(I)] B. DESCRIPTION AND DURATION OF ALL PERIODS WHEN LFG FLARE NO. 2 WAS NOT OPERATING FOR A PERIOD EXCEEDING 1 HOUR AND LENGTH OF TIME LFG FLARE NO. 2 WAS NOT OPERATING. [40 CFR 60.757(F)(3)]

19. THE PERMITTEE SHALL DEVELOP AND IMPLEMENT A WRITTEN STARTUP, SHUTDOWN AND MALFUNCTION (SSM) PLAN AS SPECIFIED IN 40 CFR 63.6(E)

20. STARTUP, SHUTDOWN AND MALFUNCTION (SSM) IMMEDIATE REPORT

A WRITTEN SSM IMMEDIATE REPORT SHALL BE SUBMITTED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER AS INDICATED AND SHALL CONTAIN THE FOLLOWING INFORMATION.

[40 CFR 63.1955(B), 40 CFR 63.1980(B), 40 CFR 63.10(D)(5)(II)]

FREQUENCY	INFORMATION TO BE SUBMITTED
<u>ONLY REQUIRED IF A SSM EVENT OCCURRED.</u>	A. IF ACTIONS TAKEN DURING A SSM EVENT ARE <u>NOT CONSISTENT</u> WITH THE PROCEDURES SPECIFIED IN THE SSM PLAN, THE PERMITTEE SHALL:
WITHIN 2 WORKING DAYS →	I. REPORT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER, BY TELEPHONE CALL OR FACSIMILE (FAX), WITHIN 2 WORKING DAYS AFTER COMMENCING ACTIONS <u>NOT CONSISTENT</u> WITH THE SSM PLAN.
WITHIN 7 WORKING DAYS →	II. FOLLOW WITH A LETTER TO THE SMAQMD AIR POLLUTION CONTROL OFFICER

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FREQUENCY	INFORMATION TO BE SUBMITTED
	<p>WITHIN 7 WORKING DAYS AFTER THE END OF THE SSM EVENT THAT:</p> <p>A. CONTAINS THE NAME, TITLE AND SIGNATURE OF THE RESPONSIBLE OFFICIAL WHO IS CERTIFYING THE ACCURACY OF THE REPORT.</p> <p>B. EXPLAINS THE CIRCUMSTANCES OF THE EVENT.</p> <p>C. EXPLAINS THE REASONS FOR NOT FOLLOWING THE SSM PLAN.</p> <p>D. EXPLAINS WHETHER ANY EXCESS EMISSIONS AND/OR PARAMETER MONITORING EXCEEDANCES ARE BELIEVED TO HAVE OCCURRED.</p>

21. STARTUP, SHUTDOWN AND MALFUNCTION (SSM) PERIODIC REPORT

A WRITTEN SSM PERIODIC REPORT SHALL BE SUBMITTED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER BY THE DATE INDICATED AND SHALL CONTAIN THE FOLLOWING INFORMATION.

[40 CFR 63.1955(B), 40 CFR 63.1980(B), 40 CFR 63.10(D)(5)(I)]

FREQUENCY	INFORMATION TO BE SUBMITTED
<p><u>ONLY REQUIRED IF A SSM EVENT OCCURRED WITHIN A REPORTING PERIOD.</u></p> <p>SUBMIT BY - JANUARY 31 JULY 30</p> <p>FOR THE REPORTING PERIODS - JANUARY 01 - JUNE 30 JULY 01 - DECEMBER 31</p>	<p>A. IF ACTIONS TAKEN DURING A SSM EVENT <u>ARE CONSISTENT</u> WITH THE PROCEDURES SPECIFIED IN THE SSM PLAN, THE PERMITTEE SHALL STATE SUCH INFORMATION IN A SSM REPORT.</p> <p>B. THE SSM REPORT SHALL CONTAIN:</p> <p>I. NUMBER, DURATION AND A BRIEF DESCRIPTION OF EACH SSM EVENT.</p> <p>II. A LETTER CONTAINING THE NAME, TITLE AND SIGNATURE OF THE RESPONSIBLE OFFICIAL WHO IS CERTIFYING THE ACCURACY OF THE REPORT.</p>

22. THE PERMITTEE SHALL MAINTAIN FILES OF ALL REQUIRED SSM INFORMATION SPECIFIED BELOW (INCLUDING ALL REPORTS AND NOTIFICATIONS), RECORDED IN A FORM SUITABLE AND READILY AVAILABLE FOR EXPEDITIOUS INSPECTION AND REVIEW. THE FILES SHALL BE RETAINED FOR AT LEAST 5 YEARS FOLLOWING THE DATE OF EACH OCCURRENCE, MEASUREMENT, MAINTENANCE, CORRECTIVE ACTION, REPORT OR RECORD. AT A MINIMUM, THE MOST RECENT 2 YEARS OF DATA SHALL BE RETAINED ON SITE. THE REMAINING 3 YEARS OF DATA MAY BE RETAINED OFF SITE. SUCH FILES MAY BE MAINTAINED ON MICROFILM, ON A COMPUTER, ON COMPUTER FLOPPY DISKS, ON MAGNETIC TAPE DISKS OR ON MICROFICHE.

[40 CFR 63.1955(B), 40 CFR 63.1980(B), 40 CFR 63.10(B), 40 CFR 63.10(D)(5)(II)]

FREQUENCY	INFORMATION TO BE RECORDED
AT ALL TIMES	<p>A. THE OCCURRENCE AND DURATION OF EACH STARTUP OR SHUTDOWN WHEN THE STARTUP OR SHUTDOWN CAUSES THE SOURCE TO EXCEED ANY APPLICABLE EMISSION LIMITATION IN THE RELEVANT EMISSION STANDARDS.</p>

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FREQUENCY	INFORMATION TO BE RECORDED
	<p>B. THE OCCURRENCE AND DURATION OF EACH MALFUNCTION OF OPERATION (I.E., PROCESS EQUIPMENT) OR THE REQUIRED AIR POLLUTION CONTROL AND MONITORING EQUIPMENT.</p> <p>C. ALL REQUIRED MAINTENANCE PERFORMED ON THE AIR POLLUTION CONTROL AND MONITORING EQUIPMENT.</p> <p>D. ACTIONS TAKEN DURING PERIODS OF STARTUP, SHUTDOWN AND MALFUNCTION (INCLUDING CORRECTIVE ACTIONS TO RESTORE MALFUNCTIONING PROCESS AND AIR POLLUTION CONTROL AND MONITORING EQUIPMENT TO ITS NORMAL OR USUAL MANNER OF OPERATION) WHEN SUCH ACTIONS ARE DIFFERENT FROM THE PROCEDURES SPECIFIED IN THE AFFECTED SOURCE'S SSM PLAN.</p> <p>E. ALL INFORMATION NECESSARY, INCLUDING ACTIONS TAKEN, TO DEMONSTRATE CONFORMANCE WITH THE AFFECTED SOURCE'S STARTUP, SHUTDOWN, AND MALFUNCTION PLAN WHEN ALL ACTIONS TAKEN DURING PERIODS OF STARTUP OR SHUTDOWN (AND THE STARTUP OR SHUTDOWN CAUSES THE SOURCE TO EXCEED ANY APPLICABLE EMISSION LIMITATION IN THE RELEVANT EMISSION STANDARDS), AND MALFUNCTION (INCLUDING CORRECTIVE ACTIONS TO RESTORE MALFUNCTIONING PROCESS AND AIR POLLUTION CONTROL AND MONITORING EQUIPMENT TO ITS NORMAL OR USUAL MANNER OF OPERATION) ARE CONSISTENT WITH THE PROCEDURES SPECIFIED IN SUCH PLAN.</p> <p>I. THE INFORMATION NEEDED TO DEMONSTRATE CONFORMANCE WITH THE SSM PLAN MAY BE RECORDED USING A "CHECKLIST" OR SOME OTHER EFFECTIVE FORM OF RECORDKEEPING, IN ORDER TO MINIMIZE THE RECORDKEEPING BURDEN FOR CONFORMING EVENTS.</p> <p>F. EACH PERIOD DURING WHICH A CONTINUOUS MONITORING SYSTEM (CMS) IS MALFUNCTIONING OR INOPERATIVE (INCLUDING OUT-OF-CONTROL PERIODS).</p> <p>G. ALL REQUIRED MEASUREMENTS NEEDED TO DEMONSTRATE COMPLIANCE WITH A RELEVANT STANDARD (INCLUDING, BUT NOT LIMITED TO, 15-MINUTE AVERAGES OF CMS DATA, RAW PERFORMANCE TESTING MEASUREMENTS, AND RAW PERFORMANCE EVALUATION MEASUREMENTS, THAT SUPPORT DATA THAT THE SOURCE IS REQUIRED TO REPORT).</p> <p>H. ALL RESULTS OF PERFORMANCE TESTS, CMS PERFORMANCE EVALUATIONS, AND OPACITY AND VISIBLE EMISSION OBSERVATIONS.</p> <p>I. ALL MEASUREMENTS AS MAY BE NECESSARY TO DETERMINE THE CONDITIONS OF PERFORMANCE TESTS AND PERFORMANCE EVALUATIONS.</p> <p>J. ALL CMS CALIBRATION CHECKS.</p> <p>K. ALL ADJUSTMENTS AND MAINTENANCE PERFORMED ON CMS.</p> <p>L. ALL DOCUMENTATION SUPPORTING INITIAL NOTIFICATIONS AND NOTIFICATIONS OF COMPLIANCE STATUS UNDER 40 CFR 63.9.</p> <p>M. ALL REQUIRED CMS MEASUREMENTS (INCLUDING MONITORING DATA RECORDED DURING UNAVOIDABLE CMS BREAKDOWNS AND OUT-OF-CONTROL PERIODS).</p> <p>N. THE DATE AND TIME IDENTIFYING EACH PERIOD DURING WHICH THE CMS WAS INOPERATIVE</p>

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FREQUENCY	INFORMATION TO BE RECORDED
	<p>EXCEPT FOR ZERO (LOW-LEVEL) AND HIGH-LEVEL CHECKS.</p> <p>O. THE DATE AND TIME IDENTIFYING EACH PERIOD DURING WHICH THE CMS WAS OUT OF CONTROL, AS DEFINED IN 40 CFR 63.8(C)(7).</p> <p>P. THE SPECIFIC IDENTIFICATION (I.E., THE DATE AND TIME OF COMMENCEMENT AND COMPLETION) OF EACH PERIOD OF EXCESS EMISSIONS AND PARAMETER MONITORING EXCEEDANCES, AS DEFINED IN THE RELEVANT STANDARD(S), THAT OCCURS DURING STARTUPS, SHUTDOWNS, AND MALFUNCTIONS OF THE AFFECTED SOURCE.</p> <p>Q. THE SPECIFIC IDENTIFICATION (I.E., THE DATE AND TIME OF COMMENCEMENT AND COMPLETION) OF EACH TIME PERIOD OF EXCESS EMISSIONS AND PARAMETER MONITORING EXCEEDANCES, AS DEFINED IN THE RELEVANT STANDARD(S), THAT OCCURS DURING PERIODS OTHER THAN STARTUPS, SHUTDOWNS, AND MALFUNCTIONS OF THE AFFECTED SOURCE.</p> <p>R. THE NATURE AND CAUSE OF ANY MALFUNCTION (IF KNOWN).</p> <p>S. THE CORRECTIVE ACTION TAKEN OR PREVENTIVE MEASURES ADOPTED.</p> <p>T. THE NATURE OF THE REPAIRS OR ADJUSTMENTS TO THE CMS THAT WAS INOPERATIVE OR OUT OF CONTROL.</p> <p>U. THE TOTAL PROCESS OPERATING TIME DURING THE REPORTING PERIOD.</p> <p>V. ALL PROCEDURES THAT ARE PART OF A QUALITY CONTROL PROGRAM DEVELOPED AND IMPLEMENTED FOR CMS UNDER 40 CFR 63.8(D).</p>

EMISSION REDUCTION CREDIT (ERC) REQUIREMENTS

23. THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 27) ROC ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM ROC EMISSIONS:

EQUIPMENT	AMOUNT OF ROC EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	3726	3768	3809	3809

AIR QUALITY**MANAGEMENT DISTRICT****AUTHORITY TO CONSTRUCT****A/C NO.:** 23111**24. FOR SMAQMD RULE 202 NEW SOURCE REVIEW PURPOSES:**

THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 28) NO_x ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM NO_x EMISSIONS:

EQUIPMENT	AMOUNT OF NO _x EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	20,484	20,711	20,938	20,938

25. FOR U.S. EPA POLLUTION CONTROL PROJECT PURPOSES:

THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 29) NO_x ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM NO_x EMISSIONS:

EQUIPMENT	AMOUNT OF NO _x EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED (A) (B) TONS/YEAR
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	87.5

(A) THE REQUIREMENT FOR THESE ERCS IS A RESULT OF U.S. EPA'S POLLUTION CONTROL PROJECT OFFSETTING POLICY:

- I. U.S. EPA EXCLUDES THE PROJECT FROM FEDERAL NEW SOURCE REVIEW RULES IF IT QUALIFIES AS A POLLUTION CONTROL PROJECT.
- II. THE PROJECT QUALIFIES AS A POLLUTION CONTROL PROJECT IF IT IS ENVIRONMENTALLY BENEFICIAL.
- III. THE PROJECT IS ENVIRONMENTALLY BENEFICIAL IF ALL NO_x EMISSIONS FROM THE PROJECT ARE OFFSET.

(B) THE AMOUNT OF ERCS TO BE PROVIDED IS NOT IN ADDITION TO THE AMOUNT SPECIFIED IN CONDITION NO. 24.

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26. THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 30) PM10 ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM PM10 EMISSIONS:

EQUIPMENT	AMOUNT OF PM10 EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	5,799	5,909	6,016	6,016

27. THE FOLLOWING ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENTS AS STATED IN CONDITION NO. 23:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				OFFSET RATIO	VALUE APPLIED TO THE PROJECT ROC EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4		QTR 1	QTR 2	QTR 3	QTR 4
C101005 SMAQMD COMMUNITY BANK LEASE EXPIRES ON: 12/31/2014 (A)	3726	3768	3809	3809	1:1	3726	3768	3809	3809

- (A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:

- THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (2) BELOW.
- WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.
 - THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.
 - ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:
 - THE ORIGINALLY SPECIFIED AMOUNT, OR
 - THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.
- FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

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28. THE FOLLOWING NO_x/ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENT AS STATED IN CONDITION NO. 24:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4			QTR 1	QTR 2	QTR 3	QTR 4
98-00470 RANCHO SECO ICE NO _x	1,448	1,448	1,448	1,448	N/A	1.3:1	1,114	1,114	1,114	1,114
98-00472 RANCHO SECO ICE NO _x	1,160	1,160	1,160	1,160	N/A	1.3:1	892	892	892	892
98-00474 RANCHO SECO ICE NO _x	2,250	2,250	2,250	2,250	N/A	1.3:1	1,731	1,731	1,731	1,731
98-00476 RANCHO SECO ICE NO _x	2,727	2,727	2,727	2,727	N/A	1.3:1	2,098	2,098	2,098	2,098
98-00478 RANCHO SECO BOILER NO _x	12,089	4,193	719	4,529	N/A	1.3:1	9,299	3,225	553	3,484
EC-0002 YOLO-SOLANO AQMD SPRECKLES SUGAR NO _x	0	4,884	2,719	3,539	N/A	1.5:1	0	3,256	1,813	2,359
EC-0004 YOLO-SOLANO AQMD SPRECKLES SUGAR NO _x	0	0	6,175	958	N/A	1.5:1	0	0	4,117	639
98-00004 PLACER COUNTY APCD FORMICA CORPORATION ROC	16,050	25,185	25,863	25,865	2:1	1.5:1	5,350	8,395	8,621	8,622
TOTAL							20,484	20,711	20,938	20,938

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29. THE FOLLOWING NO_x/ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE U.S. EPA REQUIREMENT STATED IN CONDITION NO. 25:

THE PROPOSED LEASED ERCS MUST BE ACQUIRED BY 01-01-2012
OR THE OPERATION OF THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM
WILL BE IN VIOLATION OF SMAQMD RULE 202 - NEW SOURCE REVIEW

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY TON/YEAR
	QTR 1	QTR 2	QTR 3	QTR 4			
99-00649 POPPY RIDGE NO _x	4,089	6,029	6,132	4,259	N/A	1:1	10.25
01-00752 POPPY RIDGE NO _x	522	391	36	457	N/A	1:1	0.70
01-00752 POPPY RIDGE NO _x	715	715	715	715	N/A	1:1	1.43
98-00470 RANCHO SECO ICE NO _x	1,448	1,448	1,448	1,448	N/A	1:1	2.90
98-00472 RANCHO SECO ICE NO _x	1,160	1,160	1,160	1,160	N/A	1:1	2.32
98-00474 RANCHO SECO ICE NO _x	2,250	2,250	2,250	2,250	N/A	1:1	4.50
98-00476 RANCHO SECO ICE NO _x	2,727	2,727	2,727	2,727	N/A	1:1	5.45
98-00478 RANCHO SECO BOILER NO _x	12,089	4,193	719	4,529	N/A	1:1	10.77
EC-0002 YOLO-SOLANO AQMD SPRECKLES SUGAR NO _x	0	4,884	2,719	3,539	N/A	1:1	5.57

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EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY TON/YEAR
	QTR 1	QTR 2	QTR 3	QTR 4			
EC-0004 YOLO-SOLANO AQMD SPRECKLES SUGAR NO _x	0	0	6,175	958	N/A	1:1	3.57
98-00004 PLACER APCD FORMICA CORPORATION ROC	16,848	35,070	43,089	34,296	2:1	1:1	32.33
P07-1005 ESSENTIAL PUBLIC SERVICES ACCOUNT SMAQMD PRIORITY RESERVE BANK LEASE EXPIRES ON: 01/01/2012 (A) NO _x	4,588	2,890	3,252	4,704	N/A	1:1	7.72
P11-1008 ESSENTIAL PUBLIC SERVICES ACCOUNT SMAQMD PRIORITY RESERVE BANK LEASE EXPIRES ON: 01/01/2015 (A) NO _x	4,588	2,890	3,252	4,704	N/A	1:1	7.72
TOTAL							87.5

(A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:

- I. THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (II) BELOW.
- II. WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.

(A) THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.

(B) ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:

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- (1) THE ORIGINALLY SPECIFIED AMOUNT, OR
- (2) THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.

III. FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

30. THE FOLLOWING PM10 ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENT AS STATED IN CONDITION NO. 26:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF PM10 ERC CERTIFICATES SURRENDERED LB/QUARTER				OFFSET RATIO	VALUE APPLIED TO THE PROJECT PM10 EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4		QTR 1	QTR 2	QTR 3	QTR 4
2005-03 PLACER COUNTY APCD LINCOLN BRAND FEEDS	4,329	4,446	4,558.5	4,558.5	1.5:1	2,886	2,964	3,039	3,039
2005-06 PLACER COUNTY APCD LINCOLN BRAND FEEDS	2,425	2,308	2,195.5	2,195.5	1.5:1	1,616.7	1,538.7	1,463.7	1,463.7
C053003 SMAQMD COMMUNITY BANK LEASE EXPIRES ON: 07/01/2035 (A)	1,296.3	1,406.3	1,513.3	1,513.3	1:1	1,296.3	1,406.3	1,513.3	1,513.3
TOTAL						5,799	5,909	6,016	6,016

(A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:

- I. THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (II) BELOW.
- II. WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.
 - (A) THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.
 - (B) ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:
 - (1) THE ORIGINALLY SPECIFIED AMOUNT, OR
 - (2) THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.

III. FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED

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OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

EMISSION TESTING REQUIREMENTS

31. AN EMISSION TEST SHALL BE CONDUCTED EACH CALENDAR YEAR TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 7, 8, 9 AND 15:

- A. SUBMIT A SOURCE TEST PLAN TO THE SMAQMD AIR POLLUTION CONTROL OFFICER FOR APPROVAL AT LEAST 30 DAYS PRIOR TO THE SOURCE TEST DATE.
- B. NOTIFY THE SMAQMD AIR POLLUTION CONTROL OFFICER AT LEAST 7 DAYS PRIOR TO THE SOURCE TEST DATE IF THE DATE HAS CHANGED FROM THAT APPROVED IN THE SOURCE TEST PLAN.
- C. SUBMIT THE SOURCE TEST REPORT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER WITHIN 60 DAYS FROM THE COMPLETION OF THE SOURCE TEST.
- D. THE SOURCE TEST SHALL BE CONDUCTED AT THE EXHAUST OF THE LANDFILL GAS FLARE (EXCEPT FOR HYDROGEN SULFIDE TEST WHICH SHALL USE THE INLET) AND SHALL INCLUDE A TEST FOR:
 - I. EITHER:
 - A. NMOC DESTRUCTION EFFICIENCY, OR
 - B. TOTAL NMOC (PPMVD AT 3% O₂ MEASURED AS HEXANE).
 - II. NITROGEN OXIDES, NO_x.
 - III. CARBON MONOXIDE, CO.
 - IV. PARTICULATE MATTER, PM₁₀.
 - V. HYDROGEN SULFIDE, H₂S (IN GRAINS S (MEASURED AS H₂S)/100 FT³ OF LFG AT THE INLET).
 - VI. COMBUSTION TEMPERATURE (AS MEASURED BY THE THERMOCOUPLE REQUIRED BY CONDITION NO. 13).
 - VII. LANDFILL GAS FLOW RATE.
- E. THE SMAQMD AIR POLLUTION CONTROL OFFICER MAY WAIVE THE ANNUAL SOURCE TEST REQUIREMENT FOR PM₁₀ IF, IN THE SMAQMD AIR POLLUTION CONTROL OFFICER'S SOLE JUDGMENT, PREVIOUS SOURCE TEST RESULTS INDICATE THAT AN ADEQUATE COMPLIANCE MARGIN HAS BEEN MAINTAINED.
- F. COMPLIANCE WITH THE NO_x EMISSION LIMIT SHALL BE DETERMINED USING ONE OF THE FOLLOWING SOURCE TEST METHODS:
 - I. CARB METHOD 100
 - II. U.S. EPA METHOD 7E OR
 - III. ANY OTHER METHOD APPROVED BY THE U.S. EPA AND THE SMAQMD AIR POLLUTION CONTROL OFFICER.

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RACT DETERMINATION REQUIREMENTS

32. THIS PERMIT TO OPERATE INCORPORATES A REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT) DETERMINATION AS REQUIRED BY THE FEDERAL CLEAN AIR ACT (AS AMENDED 1990) SECTIONS 182(B)(2) AND 182(F).
33. THE EXPIRATION DATE SHOWN ON THIS PERMIT TO OPERATE IS FOR STATE OF CALIFORNIA PURPOSES. FOR FEDERAL ENFORCEMENT PURPOSES THE RACT PROVISIONS OF THIS PERMIT THAT ARE APPROVED BY THE U.S. EPA SHALL REMAIN IN EFFECT AS PART OF THE STATE OF CALIFORNIA IMPLEMENTATION PLAN (SIP) UNTIL REPLACED PURSUANT TO 40 CFR 51 AND APPROVED BY THE U.S. EPA.

YOUR APPLICATION FOR THIS AIR QUALITY AUTHORITY TO CONSTRUCT WAS EVALUATED FOR COMPLIANCE WITH SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT (AQMD), STATE AND FEDERAL AIR QUALITY RULES. THE FOLLOWING LISTED RULES ARE THOSE THAT ARE MOST APPLICABLE TO THE OPERATION OF YOUR EQUIPMENT. OTHER RULES MAY ALSO BE APPLICABLE.

<u>AQMD RULE NO.</u>	<u>RULE TITLE</u>
201	GENERAL PERMIT REQUIREMENTS
202	NEW SOURCE REVIEW
301	STATIONARY SOURCE PERMIT FEES
401	RINGELMANN CHART
402	NUISANCE
406	SPECIFIC CONTAMINANTS
420	SULFUR CONTENT OF FUELS
801 AND U.S. EPA NSPS	40 CFR PART 60 SUBPART WWW NEW SOURCE PERFORMANCE STANDARDS FOR MUNICIPAL SOLID WASTE LANDFILLS
U.S. EPA NESHAP	40 CFR PART 63 SUPART AAAA NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR MUNICIPAL SOLID WASTE LANDFILLS

IN ADDITION, THE CONDITIONS ON THIS AUTHORITY TO CONSTRUCT MAY REFLECT SOME, BUT NOT ALL, REQUIREMENTS OF THESE RULES. THERE MAY BE OTHER CONDITIONS THAT ARE APPLICABLE TO THE OPERATION OF YOUR EQUIPMENT. FUTURE CHANGES IN PROHIBITORY RULES MAY ESTABLISH MORE STRINGENT REQUIREMENTS WHICH MAY SUPERSEDE THE CONDITIONS LISTED HERE.

FOR FURTHER INFORMATION PLEASE CONSULT YOUR AQMD RULEBOOK OR CONTACT THE AQMD FOR ASSISTANCE.

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AUTHORITY TO CONSTRUCT**A/C NO.:** 23112 - 23116**ISSUED BY:**
FELIX TRUJILLO, JR.**DATE ISSUED:** DECEMBER 6, 2011**DATE EXPIRES:** DECEMBER 6, 2013**ISSUED TO:** KIEFER LANDFILL, DEPARTMENT OF WASTE MANAGEMENT AND RECYCLING,
COUNTY OF SACRAMENTO**LOCATION:** 12701 KIEFER BOULEVARD, SLOUGHOUSE, CA 95683**DESCRIPTION:** MODIFICATION OF LANDFILL AIR POLLUTION CONTROL SYSTEM CONSISTING
OF 5 IC ENGINES (P/OS 22385-22389) TO RENEW EXPIRING 7.72 TONS
NO_x/YEAR OF ERCS FOR THREE MORE YEARS.**AUTHORITY TO CONSTRUCT CONDITIONS****START-UP REQUIREMENTS**

- S1. UPON INSTALLATION OF THE EQUIPMENT AUTHORIZED IN THIS AUTHORITY TO CONSTRUCT, THE OWNER/OPERATOR SHALL CONTACT THE SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT (SMAQMD) AT (916) 874-4800 TO ARRANGE FOR A START-UP INSPECTION.
- S2. THIS AUTHORITY TO CONSTRUCT SHALL SERVE AS A TEMPORARY PERMIT TO OPERATE PROVIDED THAT:
 - A. THE SMAQMD HAS BEEN NOTIFIED TO CONDUCT A START-UP INSPECTION.
 - B. THE EQUIPMENT INSTALLED MATCHES THE EQUIPMENT AUTHORIZED IN THIS AUTHORITY TO CONSTRUCT.
 - C. THE EQUIPMENT IS OPERATED IN COMPLIANCE WITH ALL CONDITIONS LISTED WITHIN THIS AUTHORITY TO CONSTRUCT.
- S3. THE OWNER OR OPERATOR OF A THE STATIONARY SOURCE SHALL SUBMIT TO THE AIR POLLUTION CONTROL OFFICER A COMPLETE TITLE V PERMIT APPLICATION FOR MINOR TITLE V PERMIT MODIFICATION PRIOR TO COMMENCING OPERATION ASSOCIATED WITH THE MINOR TITLE V PERMIT MODIFICATION.

GENERAL

1. THE EQUIPMENT SHALL BE PROPERLY MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AT ALL TIMES.
2. THE AIR POLLUTION CONTROL OFFICER AND/OR AUTHORIZED REPRESENTATIVES, UPON THE PRESENTATION OF CREDENTIALS SHALL BE PERMITTED:
 - A. TO ENTER UPON THE PREMISES WHERE THE SOURCE IS LOCATED OR IN WHICH ANY RECORDS ARE REQUIRED TO BE KEPT UNDER THE TERMS AND CONDITIONS OF THIS AUTHORITY TO CONSTRUCT, AND
 - B. AT REASONABLE TIMES TO HAVE ACCESS TO AND COPY ANY RECORDS REQUIRED TO BE KEPT UNDER TERMS AND CONDITIONS OF THIS AUTHORITY TO CONSTRUCT, AND
 - C. TO INSPECT ANY EQUIPMENT, OPERATION, OR METHOD REQUIRED IN THIS AUTHORITY TO CONSTRUCT, AND
 - D. TO SAMPLE EMISSIONS FROM THE SOURCE OR REQUIRE SAMPLES TO BE TAKEN.

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3. THIS AUTHORITY TO CONSTRUCT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26, PART 4, CHAPTER 3, OF THE CALIFORNIA HEALTH AND SAFETY CODE OR THE RULES AND REGULATIONS OF THE AIR QUALITY MANAGEMENT DISTRICT.
4. THE EQUIPMENT SHALL NOT DISCHARGE SUCH QUANTITIES OF AIR CONTAMINANTS OR OTHER MATERIALS WHICH CAUSE INJURY, DETRIMENT, NUISANCE OR ANNOYANCE TO ANY CONSIDERABLE NUMBER OF PERSONS OR TO THE PUBLIC, OR WHICH ENDANGER THE COMFORT, REPOSE, HEALTH, OR SAFETY OF ANY SUCH PERSONS OR THE PUBLIC, OR WHICH CAUSE, OR HAVE A NATURAL TENDENCY TO CAUSE, INJURY OR DAMAGE TO BUSINESS OR PROPERTY.
5. A LEGIBLE COPY OF THIS AUTHORITY TO CONSTRUCT SHALL BE MAINTAINED ON THE PREMISES WITH THE EQUIPMENT.

EMISSION LIMITATIONS

6. IC ENGINE NOS. 1, 2, 3, 4 AND 5 SHALL NOT DISCHARGE INTO THE ATMOSPHERE ANY VISIBLE AIR CONTAMINANTS OTHER THAN UNCOMBINED WATER VAPOR, FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR, WHICH ARE AS DARK OR DARKER THAN RINGELMANN NO. 1 OR EQUIVALENT TO OR GREATER THAN 20% OPACITY.
7. EMISSIONS FROM EACH IC ENGINE SHALL NOT EXCEED THE FOLLOWING LIMITS:

A/C 23112 IC ENGINE NO. 1 OR
A/C 23113 IC ENGINE NO. 2 OR
A/C 23114 IC ENGINE NO. 3 OR
A/C 23115 IC ENGINE NO. 4 OR
A/C 23116 IC ENGINE NO. 5

POLLUTANT	MAXIMUM ALLOWABLE EMISSION
ROC (A)	A. 0.17 GRAMS/HP-HOUR
NO _x (B)	B. <u>DURING PERIODS THAT CONTAIN NO SHORT-TERM EXCURSIONS:</u> (D) I. 0.40 GRAMS/HP-HOUR, ANY CONSECUTIVE 3 HOUR AVERAGE, OR II. 30.0 PPMVD AT 15% O ₂ , ANY CONSECUTIVE 3 HOUR AVERAGE. C. <u>DURING PERIODS THAT CONTAIN SHORT-TERM EXCURSIONS:</u> (D) I. 0.60 GRAMS/HP-HOUR, ANY CONSECUTIVE 3 HOUR AVERAGE, OR II. 45.0 PPMVD AT 15% O ₂ , ANY CONSECUTIVE 3 HOUR AVERAGE.
SO ₂ (C)	D. 0.29 GRAMS/HP-HOUR
PM ₁₀ (C)	E. 0.113 GRAMS/HP-HOUR

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POLLUTANT	MAXIMUM ALLOWABLE EMISSION
CO (B)	F. <u>DURING PERIODS THAT CONTAIN NO SHORT-TERM EXCURSIONS:</u> (D)
	I. 2.55 GRAMS/HP-HOUR, ANY CONSECUTIVE 3 HOUR AVERAGE,
	OR
	II. 366 PPMVD AT 15% O ₂ , ANY CONSECUTIVE 3 HOUR AVERAGE.
	G. <u>DURING PERIODS THAT CONTAIN SHORT-TERM EXCURSIONS:</u> (D)
	I. 3.48 GRAMS/HP-HOUR, ANY CONSECUTIVE 3 HOUR AVERAGE,
	OR
	II. 500 PPMVD AT 15% O ₂ , ANY CONSECUTIVE 3 HOUR AVERAGE.

(A) THE PREVIOUS ROC LIMIT IS SUPERSEDED BY THIS PERMITTEE REQUESTED EMISSION LIMIT

(B) SMAQMD BACT DETERMINATION.

(C) THE PREVIOUS SMAQMD BACT DETERMINATION IS SUPERSEDED BY THIS MORE RESTRICTIVE PERMITTEE REQUESTED EMISSION LIMIT.

(D) SHORT-TERM EXCURSION IS DEFINED AS ANY PERIOD, DESIGNATED BY THE PERMITTEE, THAT IS THE DIRECT RESULT OF NON-UNIFORM DENSITY OR NON-UNIFORM HEATING VALUE OF THE LANDFILL GAS FUEL, WHEN THE CONSECUTIVE 3 HOUR AVERAGE NO_x CONCENTRATION EXCEEDS 30.0 PPMVD AT 15% O₂ (0.4 GRAMS/HP-HOUR) OR THE CONSECUTIVE 3 HOUR AVERAGE CO CONCENTRATION EXCEEDS 366 PPMVD AT 15% O₂ (2.55 GRAMS/HP-HOUR).

8. THE NUMBER OF PERIODS CONTAINING SHORT-TERM EXCURSIONS FOR NO_x AND CO SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	MAXIMUM ALLOWABLE NUMBER OF PERIODS (A) CONTAINING SHORT-TERM EXCURSIONS (B) (PERIODS/QUARTER)
NO _x	20
CO	10

(A) A PERIOD IS DEFINED AS EACH CONSECUTIVE 3 HOUR AVERAGE.

(B) SHORT-TERM EXCURSION IS DEFINED IN CONDITION NO. 7(D).

AIR QUALITY**MANAGEMENT DISTRICT****AUTHORITY TO CONSTRUCT****A/C NO.:** 23112-23116**9. EMISSIONS FROM EACH IC ENGINE SHALL NOT EXCEED THE FOLLOWING LIMITS:**

A/C 23112 IC ENGINE NO. 1 OR
 A/C 23113 IC ENGINE NO. 2 OR
 A/C 23114 IC ENGINE NO. 3 OR
 A/C 23115 IC ENGINE NO. 4 OR
 A/C 23116 IC ENGINE NO. 5

POLLUTANT	EMISSION FACTOR GRAMS/H P-HOUR	MAXIMUM ALLOWABLE EMISSIONS (E)				
		DAILY LB/DAY	QUARTERLY LB/QUARTER			YEARLY LB/YEAR
			QUARTER 1 (90 DAYS) LB/QUARTER	QUARTER 2 (91 DAYS) LB/QUARTER	QUARTERS 3 & 4 (92 DAYS) LB/QUARTER	
ROC	0.17 (A)	38.0	3424	3462	3500	13,886
NO _x	0.40 (B)	89.5	8057	8147	8236	32,676
SO ₂	0.29 (C)	64.9	5841	5906	5971	23,689
PM10	0.113 (D)	25.3	2276	2301	2327	9,231
CO	2.55 (B)	570.7	51364	51935	52506	208,311
GHG (F)	55.06 LB/MCF	43.4 TON/DAY	3,906 TON/QTR	3,949 TON/QTR	3,993 TON/QTR	15,841 TON/YR
GHG (F)	0.001 LB/MCF	0.0008 TON/DAY	0.1 TON/QTR	0.1 TON/QTR	0.1 TON/QTR	0.4 TON/YR

(A) EMISSION FACTOR FOR ROC IS A VALUE REQUESTED BY THE PERMITTEE.

(B) EMISSION FACTORS FOR NO_x AND CO ARE SMAQMD BACT DETERMINATIONS.

(C) EMISSION FACTOR FOR SO₂ IS A VALUE REQUESTED BY THE PERMITTEE AND IS 95% OF THE PREVIOUS SMAQMD BACT DETERMINATION.

(D) EMISSION FACTOR FOR PM10 IS A VALUE REQUESTED BY THE PERMITTEE AND IS 95% OF THE PREVIOUS SMAQMD BACT DETERMINATION.

(E) MAXIMUM ALLOWABLE EMISSIONS ARE BASED ON 4,230 HP, 24 HOURS/DAY AND THE NUMBER OF DAYS IN EACH CALENDAR QUARTER. THE YEARLY EMISSIONS ARE EQUAL TO THE CUMULATIVE QUARTERLY EMISSIONS.

(F) THE POTENTIAL TO EMIT FOR GHG IS BASED ON THE BEST AVAILABLE CO₂E EMISSION FACTOR AT THE TIME THE PERMIT ACTION WAS TAKEN AND A FUEL USAGE RATE OF 1,094 SCFM. SHOULD THE EMISSION FACTOR CHANGE, THE POTENTIAL TO EMIT WILL BE MODIFIED ACCORDINGLY.

THE EMISSION FACTOR FOR TOTAL GHG (55.06 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES COMBUSTION BYPRODUCTS (CH₄, CO₂ AND N₂O) BUT IT DOES NOT INCLUDE PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

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THE EMISSION FACTOR NOT NON-BIOGENIC GHG (0.001 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES THE NON-CO₂ COMBUSTION BYPRODUCTS (CH₄, AND N₂O) BUT IT DOES NOT INCLUDE COMBUSTION CO₂ OR PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

10. COMBINED EMISSIONS FROM THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM EQUIPMENT (5 IC ENGINES AND 2 FLARES) SHALL NOT EXCEED THE FOLLOWING:

A/C 23110 LANDFILL GAS FLARE NO. 1 AND
 A/C 23111 LANDFILL GAS FLARE NO. 2 AND
 A/C 23112 IC ENGINE NO. 1 AND
 A/C 23113 IC ENGINE NO. 2 AND
 A/C 23114 IC ENGINE NO. 3 AND
 A/C 23115 IC ENGINE NO. 4 AND
 A/C 23116 IC ENGINE NO. 5

POLLUTANT	MAXIMUM ALLOWABLE EMISSIONS (B)				
	QUARTER 1 LB/QUARTER	QUARTER 2 LB/QUARTER	QUARTER 3 LB/QUARTER	QUARTER 4 LB/QUARTER	YEARLY TON/YEAR
ROC	34,573	34,958	35,320	35,320	70.1
NOX	43,151	43,631	44,110	44,110	87.5
SO ₂	44,698	45,195	45,715	45,715	90.7
PM ₁₀	13,350	13,501	13,648	13,648	27.1
CO	219,798	222,258	224,715	224,715	445.7
GHG (A)	37,356 TON/QTR	37,770 TON/QTR	38,186 TON/QTR	38,186 TON/QTR	151,498
GHG (A)	0.7 TON/QTR	0.7 TON/QTR	0.7 TON/QTR	0.7 TON/QTR	2.8

- (A) THE POTENTIAL TO EMIT FOR GHG IS BASED ON THE BEST AVAILABLE CO₂E EMISSION FACTOR AT THE TIME THE PERMIT ACTION WAS TAKEN AND THE MAXIMUM ALLOWED FUEL USAGE RATE (10,470 CFM; 5,000 CFM FOR THE FLARES AND 5,470 CFM FOR THE ENGINES). SHOULD THE EMISSION FACTOR CHANGE, THE POTENTIAL TO EMIT WILL BE MODIFIED ACCORDINGLY.

THE EMISSION FACTOR FOR TOTAL GHG (55.06 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES COMBUSTION BYPRODUCTS (CH₄, CO₂ AND N₂O) BUT IT DOES NOT INCLUDE PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

THE EMISSION FACTOR NOT NON-BIOGENIC GHG (0.001 LB/MCF) IS BASED ON APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). IT INCLUDES THE NON-CO₂ COMBUSTION BYPRODUCTS (CH₄, AND N₂O) BUT IT DOES NOT INCLUDE COMBUSTION CO₂ OR PASS-THROUGH CO₂ OR FUGITIVE GHG EMISSIONS.

- (B) QUARTERLY EMISSIONS ARE BASED ON 24 HOURS/DAY AND THE ACTUAL NUMBER OF DAYS IN EACH CALENDAR QUARTER. ANNUAL EMISSIONS ARE THE SUM OF THE QUARTERLY EMISSIONS.

11. COMBINED EMISSIONS FROM THE 5 IC ENGINES ONLY (EXCLUDING THE 2 FLARES) SHALL NOT EXCEED THE FOLLOWING:

A/C 23112 IC ENGINE NO. 1 AND
 A/C 23113 IC ENGINE NO. 2 AND
 A/C 23114 IC ENGINE NO. 3 AND

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A/C 23116 IC ENGINE NO. 5

POLLUTANT	MAXIMUM YEARLY ALLOWABLE EMISSIONS (A) TONS/YEAR
NO _x	79.8

(A) THE NO_x EMISSIONS FROM THE 5 IC ENGINES ARE LIMITED BY THE AMOUNT OF ERCS PROVIDED FROM SOURCES OTHER THAN THE SMAQMD PRIORITY RESERVE BANK ESSENTIAL PUBLIC SERVICES ACCOUNT. THE 7.72 TONS OF NO_x ERCS LEASED FROM THE ESSENTIAL PUBLIC SERVICES ACCOUNT (SEE CONDITION NO. 21) ARE NOT ALLOWED TO BE USED FOR ON-SITE POWER GENERATION BY SMAQMD RULE 205 SECTION 102.1.

EQUIPMENT OPERATION REQUIREMENTS

12. ONLY LANDFILL GAS SHALL BE COMBUSTED BY ENGINES NOS. 1, 2, 3, 4 AND 5.
13. LANDFILL GAS COMBUSTED BY THE IC ENGINES NOS. 1, 2, 3, 4 AND 5 SHALL BE ROUTED THROUGH A TREATMENT SYSTEM.
 - A. TREATMENT SYSTEM AS INTERPRETED BY U.S. EPA CONSISTS OF:
 - I. FILTERING THROUGH A 10 MICRON FILTER, AND
 - II. COMPRESSION, AND
 - III. DEWATERING.
 - B. APPROVAL OF THE KIEFER LANDFILL TREATMENT SYSTEM IS CONTAINED IN THE 04-22-2004 LETTER FROM DOUGLAS MCDANIEL, ACTING CHIEF, AIR ENFORCEMENT, U.S. EPA REGION 9 TO GREGORY GRATZ, DERENZO AND ASSOCIATES, ON BEHALF OF KIEFER LANDFILL.
14. THE SULFUR CONTENT OF THE LANDFILL GAS FUEL COMBUSTED IN EACH LANDFILL GAS FUELED IC ENGINE SHALL NOT EXCEED 16 GRAINS PER 100 SCF MEASURED AS HYDROGEN SULFIDE.
15. A SAMPLING PORT, OR OTHER METHOD APPROVED BY THE SMAQMD AIR POLLUTION CONTROL OFFICER, SHALL BE INSTALLED AT THE INLET LANDFILL GAS LINE TO THE LANDFILL GAS FUELED IC ENGINES.
 - A. THE SAMPLING PORT SHALL BE LOCATED SO THAT AN ACCURATE VOLUME FLOW MEASUREMENT CAN BE PERFORMED.
16. IC ENGINE EXHAUST STACK SAMPLE PORTS SHALL BE PERMANENT, ACCESSIBLE AND LOCATED AND CONSTRUCTED AS PER APPLICABLE U.S. EPA, CARB AND U.S. OSHA REQUIREMENTS.
17. EACH LANDFILL GAS FUELED IC ENGINE SHALL BE EQUIPPED WITH A NON-RESETTING TOTALIZING HOUR METER.
18. AN IN-STACK CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) AND DATA ACQUISITION SYSTEM (DAS), THAT HAS BEEN APPROVED BY THE SMAQMD AIR POLLUTION CONTROL OFFICER, SHALL BE INSTALLED, OPERATED AND MAINTAINED FOR EACH IC ENGINE EXHAUST STACK. THE CEMS SHALL OPERATE WHENEVER AN IC ENGINE OPERATES.
 - A. THE CEMS SHALL MONITOR AND RECORD THE CONCENTRATION OF NITROGEN OXIDES, CARBON MONOXIDE AND OXYGEN.
 - B. THE CEMS SHALL BE INSTALLED AND OPERATED IN COMPLIANCE WITH THE U.S. EPA MONITORING REQUIREMENTS SPECIFIED IN 40 CFR 60.13.
 - C. THE CEMS SHALL COMPLY WITH THE U.S. EPA PERFORMANCE SPECIFICATIONS SPECIFIED IN 40 CFR 60 APPENDIX B,

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PERFORMANCE SPECIFICATIONS 2, 3 AND 4 (IF CO IS 0-100 PPM) AND 4A (IF CO IS 0-200 PPM).

- D. THE CEMS SHALL COMPLY WITH THE U.S. EPA QUALITY ASSURANCE PROCEDURES SPECIFIED IN 40 CFR 60 APPENDIX F.
- E. THE DAS SHALL HAVE THE CAPABILITY OF EXPRESSING THE MEASURED NO_x AND CO EMISSIONS IN TERMS OF PARTS PER MILLION BY VOLUME DRY (PPMVD) CORRECTED TO 15% O₂.
- F. THE DAS SHALL RECORD NO_x AND CO EMISSIONS IN THE ENGINEERING UNITS DEFINED BY THE PERMIT TO OPERATE.
- G. THE DAS SHALL RECORD ALL DATA IN COMPLIANCE WITH U.S. EPA QUALITY ASSURANCE PROCEDURES SPECIFIED IN 40 CFR 60 APPENDIX F.
- H. THE CEMS AND DAS SHALL MONITOR AND COLLECT A MINIMUM OF DATA AS FOLLOWS:
 - I. OBTAIN AT LEAST TWO DATA POINTS PER HOUR IN ORDER TO CALCULATE A VALID 1-HOUR ARITHMETIC AVERAGE. 40 CFR 60.13(E)(2) REQUIRES CEMS TO COMPLETE AT LEAST ONE CYCLE OF OPERATION (SAMPLING, ANALYZING AND DATA RECORDING) FOR EACH 15-MINUTE PERIOD.
 - II. OBTAIN VALID 1-HOUR AVERAGES FOR 95 PERCENT OF THE ANNUAL OPERATING HOURS. AN OPERATING HOUR IS ANY HOUR THE IC ENGINE COMBUSTS ANY LANDFILL GAS FUEL.

RECORDKEEPING AND REPORTING REQUIREMENTS

19. THE FOLLOWING RECORDS SHALL BE CONTINUOUSLY MAINTAINED ONSITE FOR THE MOST RECENT FIVE YEAR PERIOD AND SHALL BE MADE AVAILABLE TO THE SMAQMD AIR POLLUTION CONTROL OFFICER UPON REQUEST. QUARTERLY AND YEARLY RECORDS SHALL BE MADE AVAILABLE FOR INSPECTION WITHIN 30 DAYS OF THE END OF THE PREVIOUS REPORTING PERIOD.

FREQUENCY	INFORMATION TO BE RECORDED
AT ALL TIMES	<ul style="list-style-type: none">A. PERMIT NUMBER OF EACH IC ENGINEB. MANUFACTURER, MODEL NUMBER AND RATING IN HORSEPOWER OF EACH IC ENGINE.C. CONTINUOUSLY MONITORED NO_x, CO AND O₂ EMISSION CONCENTRATIONS FOR EACH IC ENGINE AS REQUIRED BY CONDITION NO. 18.D. MOST RECENT SOURCE TEST REPORT.
UPON OCCURRENCE	<ul style="list-style-type: none">E. WHENEVER A PERIOD CONTAINING A NO_x OR CO SHORT-TERM EXCURSION OCCURS (AS DEFINED IN CONDITION NO. 7(D)):<ul style="list-style-type: none">I. THE DATE AND TIME OF THE PERIOD CONTAINING THE NO_x OR CO SHORT-TERM EXCURSION.II. THE MONITORED NO_x CONCENTRATION DURING THE PERIOD CONTAINING THE NO_x SHORT-TERM EXCURSION.III. THE MONITORED CO CONCENTRATION DURING THE PERIOD CONTAINING THE CO SHORT-TERM EXCURSION.

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FREQUENCY	INFORMATION TO BE RECORDED
QUARTERLY	<p>F. COMPARISON OF THE ACTUAL EMISSIONS FROM THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM EQUIPMENT (5 IC ENGINES AND 2 FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 10. (LB/QUARTER)</p> <p>G. NUMBER OF PERIODS THAT CONTAIN A SHORT-TERM NO_x EXCURSION.</p> <p>H. NUMBER OF PERIODS THAT CONTAIN A SHORT-TERM CO EXCURSION.</p>
YEARLY	<p>I. COMPARISON OF THE ACTUAL EMISSIONS FROM THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM EQUIPMENT (5 IC ENGINES AND 2 FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 10. (TONS/YEAR)</p> <p>J. COMPARISON OF THE ACTUAL EMISSIONS FROM THE 5 IC ENGINES ONLY (EXCLUDING THE 2 FLARES) WITH THE MAXIMUM ALLOWABLE EMISSIONS IN CONDITION NO. 11. (TONS/YEAR)</p>

EMISSION REDUCTION CREDIT REQUIREMENTS

20. THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 24) ROC ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM ROC EMISSIONS:

EQUIPMENT	AMOUNT OF ROC EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. P/O 21097 LANDFILL GAS FLARE NO. 2 C. P/O 22385 IC ENGINE NO. 1 D. P/O 22386 IC ENGINE NO. 2 E. P/O 22387 IC ENGINE NO. 3 F. P/O 22388 IC ENGINE NO. 4 G. P/O 22389 IC ENGINE NO. 5	3726	3768	3809	3809

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21. FOR SMAQMD RULE 202 NEW SOURCE REVIEW PURPOSES:

THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 25) NO_x ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM NO_x EMISSIONS:

EQUIPMENT	AMOUNT OF NO _x EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. A/C 21097 LANDFILL GAS FLARE NO. 2 C. A/C 22385 IC ENGINE NO. 1 D. A/C 22386 IC ENGINE NO. 2 E. A/C 22387 IC ENGINE NO. 3 F. A/C 22388 IC ENGINE NO. 4 G. A/C 22389 IC ENGINE NO. 5	20,484	20,711	20,938	20,938

22. FOR U.S. EPA POLLUTION CONTROL PROJECT PURPOSES:

THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 26) NO_x ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM NO_x EMISSIONS

EQUIPMENT	AMOUNT OF NO _x EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED (A) (B) TONS/YEAR
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. A/C 21097 LANDFILL GAS FLARE NO. 2 C. A/C 22385 IC ENGINE NO. 1 D. A/C 22386 IC ENGINE NO. 2 E. A/C 22387 IC ENGINE NO. 3 F. A/C 22388 IC ENGINE NO. 4 G. A/C 22389 IC ENGINE NO. 5	87.5

(A) THE REQUIREMENT FOR THESE ERCS IS A RESULT OF U.S. EPA'S POLLUTION CONTROL PROJECT OFFSETTING POLICY:

1. U.S. EPA EXCLUDES THE PROJECT FROM FEDERAL NEW SOURCE REVIEW RULES IF IT QUALIFIES AS A POLLUTION CONTROL PROJECT.
2. THE PROJECT QUALIFIES AS A POLLUTION CONTROL PROJECT IF IT IS ENVIRONMENTALLY BENEFICIAL.
3. THE PROJECT IS ENVIRONMENTALLY BENEFICIAL IF ALL NO_x EMISSIONS FROM THE PROJECT ARE OFFSET.

(B) THE AMOUNT OF ERCS TO BE PROVIDED IS NOT IN ADDITION TO THE AMOUNT SPECIFIED IN CONDITION NO. 21.

23. THE PERMITTEE SHALL SURRENDER (AND HAS SURRENDERED - SEE CONDITION NO. 27) PM₁₀ ERCS TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO OFFSET THE FOLLOWING AMOUNT OF LANDFILL GAS AIR POLLUTION CONTROL SYSTEM PM₁₀ EMISSIONS:

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EQUIPMENT	AMOUNT OF PM10 EMISSIONS FOR WHICH ERCS ARE TO BE PROVIDED LB/QUARTER			
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
LANDFILL GAS AIR POLLUTION CONTROL SYSTEM CONSISTING OF: A. P/O 19704 LANDFILL GAS FLARE NO. 1 B. A/C 21097 LANDFILL GAS FLARE NO. 2 C. A/C 22385 IC ENGINE NO. 1 D. A/C 22386 IC ENGINE NO. 2 E. A/C 22387 IC ENGINE NO. 3 F. A/C 22388 IC ENGINE NO. 4 G. A/C 22389 IC ENGINE NO. 5	5,799	5,909	6,016	6,016

24. THE FOLLOWING ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENTS AS STATED IN CONDITION NO. 20:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				OFFSET RATIO	VALUE APPLIED TO THE PROJECT ROC EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4		QTR 1	QTR 2	QTR 3	QTR 4
C101005 SMAQMD COMMUNITY BANK LEASE EXPIRES ON: 12/31/2014 (A)	3726	3768	3809	3809	1:1	3726	3768	3809	3809

- (A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:
- THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (2) BELOW.
 - WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.
 - THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.
 - ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:
 - THE ORIGINALLY SPECIFIED AMOUNT, OR
 - THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.
 - FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

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25. THE FOLLOWING NO_x/ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENT AS STATED IN CONDITION NO. 21:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4			QTR 1	QTR 2	QTR 3	QTR 4
98-00470 RANCHO SECO ICE NO _x	1,448	1,448	1,448	1,448	N/A	1.3:1	1,114	1,114	1,114	1,114
98-00472 RANCHO SECO ICE NO _x	1,160	1,160	1,160	1,160	N/A	1.3:1	892	892	892	892
98-00474 RANCHO SECO ICE NO _x	2,250	2,250	2,250	2,250	N/A	1.3:1	1,731	1,731	1,731	1,731
98-00476 RANCHO SECO ICE NO _x	2,727	2,727	2,727	2,727	N/A	1.3:1	2,098	2,098	2,098	2,098
98-00478 RANCHO SECO BOILER NO _x	12,089	4,193	719	4,529	N/A	1.3:1	9,299	3,225	553	3,484
EC-0002 YOLO-SOLANO APCD SPRECKLES SUGAR NO _x	0	4,884	2,719	3,539	N/A	1.5:1	0	3,256	1,813	2,359
EC-0004 YOLO-SOLANO APCD SPRECKLES SUGAR NO _x	0	0	6,175	958	N/A	1.5:1	0	0	4,117	639
98-00004 PLACER COUNTY APCD FORMICA CORPORATION ROC	16,050	25,185	25,863	25,865	2:1	1.5:1	5,350	8,395	8,621	8,622
TOTAL							20,484	20,711	20,938	20,938

26. THE FOLLOWING NO_x/ROC ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE U.S. EPA REQUIREMENT STATED IN CONDITION NO. 22:

THE PROPOSED LEASED ERCS MUST BE ACQUIRED BY 01-01-2012
OR THE OPERATION OF THE LANDFILL GAS AIR POLLUTION CONTROL SYSTEM
WILL BE IN VIOLATION OF SMAQMD RULE 202 - NEW SOURCE REVIEW

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EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY TON/YEAR
	QTR 1	QTR 2	QTR 3	QTR 4			
99-00649 POPPY RIDGE NO _x	4,089	6,029	6,132	4,259	N/A	1:1	10.25
01-00752 POPPY RIDGE NO _x	522	391	36	457	N/A	1:1	0.70
01-00752 POPPY RIDGE NO _x	715	715	715	715	N/A	1:1	1.43
98-00470 RANCHO SECO ICE NO _x	1,448	1,448	1,448	1,448	N/A	1:1	2.90
98-00472 RANCHO SECO ICE NO _x	1,160	1,160	1,160	1,160	N/A	1:1	2.32
98-00474 RANCHO SECO ICE NO _x	2,250	2,250	2,250	2,250	N/A	1:1	4.50
98-00476 RANCHO SECO ICE NO _x	2,727	2,727	2,727	2,727	N/A	1:1	5.45
98-00478 RANCHO SECO BOILER NO _x	12,089	4,193	719	4,529	N/A	1:1	10.77
EC-0002 YOLO-SOLANO APCD SPRECKLES SUGAR NO _x	0	4,884	2,719	3,539	N/A	1:1	5.57
EC-0004 YOLO-SOLANO APCD SPRECKLES SUGAR NO _x	0	0	6,175	958	N/A	1:1	3.57

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EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF NO _x /ROC ERC CERTIFICATES SURRENDERED LB/QUARTER				INTER- POLLUTANT TRADING RATIO	OFFSET RATIO	VALUE APPLIED TO THE PROJECT NO _x EMISSION LIABILITY TON/YEAR
	QTR 1	QTR 2	QTR 3	QTR 4			
98-00004 PLACER APCD FORMICA CORPORATION ROC	16,848	35,070	43,089	34,296	2:1	1:1	32.33
P07-1005 ESSENTIAL PUBLIC SERVICES ACCOUNT SMAQMD PRIORITY RESERVE BANK LEASE EXPIRES ON: 01/01/2012 (A) NO _x	4,588	2,890	3,252	4,704	N/A	1:1	7.72
P11-1008 ESSENTIAL PUBLIC SERVICES ACCOUNT SMAQMD PRIORITY RESERVE BANK LEASE EXPIRES ON: 01/01/2015 (A) NO _x	4,588	2,890	3,252	4,704	N/A	1:1	7.72
TOTAL							87.5

(A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:

- THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (2) BELOW.
- WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.
 - THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.
 - ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:
 - THE ORIGINALLY SPECIFIED AMOUNT, OR
 - THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.
- FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE

AIR QUALITY

MANAGEMENT DISTRICT

AUTHORITY TO CONSTRUCT

A/C NO.: 23112-23116

CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

27. THE FOLLOWING PM10 ERCS HAVE BEEN SURRENDERED TO THE SMAQMD AIR POLLUTION CONTROL OFFICER TO COMPLY WITH THE SMAQMD RULE 202 NEW SOURCE REVIEW REQUIREMENTS AS STATED IN CONDITION NO. 24:

EMISSION REDUCTION CREDIT CERTIFICATE NO.	FACE VALUE OF PM10 ERC CERTIFICATES SURRENDERED LB/QUARTER				OFFSET RATIO	VALUE APPLIED TO THE PROJECT PM10 EMISSION LIABILITY LB/QUARTER			
	QTR 1	QTR 2	QTR 3	QTR 4		QTR 1	QTR 2	QTR 3	QTR 4
2005-03 PLACER COUNTY APCD LINCOLN BRAND FEEDS	4329	4446	4558.5	4558.5	1.5:1	2886	2964	3039	3039
2005-06 PLACER COUNTY APCD LINCOLN BRAND FEEDS	2425	2308	2195.5	2195.5	1.5:1	1616.7	1538.7	1463.7	1463.7
C053003 SMAQMD COMMUNITY BANK LEASE EXPIRES ON: 07/01/2035 (A)	1296.3	1406.3	1513.3	1513.3	1:1	1296.3	1406.3	1513.3	1513.3
TOTAL						5799	5909	6016	6016

- (A) ERCS IN THE AMOUNT SPECIFIED SHALL BE PROVIDED AT ALL TIMES THAT THE PERMITTED EQUIPMENT IS ALLOWED TO OPERATE:
- THIS PERMIT TO OPERATE SHALL EXPIRE ON THE DATE THAT THE ERCS EXPIRE UNLESS REPLACEMENT ERCS HAVE BEEN PROVIDED AS SPECIFIED IN (2) BELOW.
 - WHEN ERCS ARE PROVIDED THAT HAVE AN EXPIRATION DATE, **AND PRIOR TO THEIR EXPIRATION ONLY**, THE PERMITTEE CAN PROVIDE REPLACEMENT ERCS. THE PERMITTEE SHALL SUBMIT A VALID PERMIT APPLICATION TO MODIFY THIS PERMIT TO OPERATE AND SHALL PAY THE REQUIRED PERMIT FEES. THE APPLICATION SHALL BE FILED PRIOR TO THE ERC EXPIRATION DATE SUCH THAT SUFFICIENT TIME IS AVAILABLE TO SMAQMD STAFF TO PROCESS THE APPLICATION.
 - THE APPLICATION SHALL BE EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AND SMAQMD RULE 204 - EMISSION REDUCTION CREDITS.
 - ERCS SHALL BE REQUIRED IN AN AMOUNT WHICH IS THE LARGER OF:
 - THE ORIGINALLY SPECIFIED AMOUNT, OR
 - THE AMOUNT SPECIFIED BY THE CURRENT SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPLACEMENT.
 - FAILURE TO PROVIDE REPLACEMENT ERCS PRIOR TO THE EXPIRATION DATE OF THE CURRENT ERCS ASSOCIATED WITH THIS PERMIT TO OPERATE SHALL REQUIRE THAT THE PERMITTEE REAPPLY FOR AN AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE FOR THE SUBJECT EQUIPMENT IF CONTINUED OPERATION OF THE EQUIPMENT IS DESIRED. THE EQUIPMENT SHALL BE SUBJECT TO BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS AND OFFSETTING REQUIREMENTS OF SMAQMD RULE 202 - NEW SOURCE REVIEW AT THE TIME OF REPERMITTING.

AIR QUALITY

MANAGEMENT DISTRICT

AUTHORITY TO CONSTRUCT

A/C NO.: 23112-23116

EMISSION TESTING REQUIREMENTS

28. AN EMISSION TEST OF EACH LANDFILL GAS FUELED IC ENGINE SHALL BE CONDUCTED EACH CALENDAR YEAR TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 7, 9, 10 AND 11:
- A. SUBMIT A SOURCE TEST PLAN TO THE SMAQMD AIR POLLUTION CONTROL OFFICER FOR APPROVAL AT LEAST 30 DAYS BEFORE THE SOURCE TEST IS TO BE PERFORMED.
 - B. NOTIFY THE SMAQMD AIR POLLUTION CONTROL OFFICER AT LEAST 7 DAYS PRIOR TO THE SOURCE TEST DATE IF THE DATE HAS CHANGED FROM THAT APPROVED IN THE SOURCE TEST PLAN
 - C. SUBMIT THE SOURCE TEST REPORT TO THE SMAQMD AIR POLLUTION CONTROL OFFICER WITHIN 60 DAYS FROM THE COMPLETION OF THE SOURCE TEST.
 - D. EACH LANDFILL GAS FUELED IC ENGINE SHALL BE OPERATED AT FULL LOAD (>90%) DURING THE SOURCE TEST.
 - E. THE SOURCE TEST SHALL BE CONDUCTED AT THE EXHAUST OF EACH LANDFILL GAS FUELED IC ENGINE (EXCEPT FOR HYDROGEN SULFIDE TEST WHICH SHALL USE THE INLET) AND SHALL INCLUDE A TEST FOR:
 - I. REACTIVE ORGANIC COMPOUNDS, ROC
 - II. NITROGEN OXIDES, NOX
 - III. CARBON MONOXIDE, CO
 - IV. PARTICULATE MATTER, PM10
 - V. HYDROGEN SULFIDE, H2S, (INLET)
 - F. A RELATIVE ACCURACY TEST OF THE CONTINUOUS EMISSIONS MONITORING SYSTEM SHALL BE PERFORMED AT THE TIME OF THE YEARLY EMISSIONS TEST AS SPECIFIED IN CONDITION NO. 18.B.
 - G. THE SMAQMD AIR POLLUTION CONTROL OFFICER MAY WAIVE THE ANNUAL SOURCE TEST REQUIREMENT FOR UP TO TWO YEARS AND FOR UP TO 2 OF THE 5 IC ENGINES IF, IN THE SMAQMD AIR POLLUTION CONTROL OFFICER'S SOLE JUDGMENT, THREE CONSECUTIVE SOURCE TEST RESULTS INDICATE THAT AN ADEQUATE COMPLIANCE MARGIN HAS BEEN MAINTAINED.
 - I. IF THERE IS A SUBSEQUENT EXCEEDANCE OF THE EMISSION LIMITS DURING A SOURCE TEST, THE FREQUENCY OF TESTING FOR ALL 5 IC ENGINES SHALL RETURN TO ANNUALLY.
 - II. IN NO CASE SHALL AN IC ENGINE OPERATE MORE THAN 8,760 HOURS OR 5 YEARS WITHOUT A SOURCE TEST AS REQUIRED BY SMAQMD RULE 412 STATIONARY INTERNAL COMBUSTION ENGINES LOCATED AT MAJOR STATIONARY SOURCES OF NOX, SECTION 402 SOURCE TESTING FREQUENCY (NOX, CO AND NMHC).

NOTIFICATION

29. **INITIAL NOTIFICATION FOR ENGINES NOS. 4 AND 5 ONLY:** THE OWNER OR OPERATOR OF THE ENGINES SHALL SUBMIT A NOTIFICATION TO THE U.S. EPA. THE NOTIFICATION SHALL INCLUDE THE FOLLOWING INFORMATION:
- A. NAME AND ADDRESS OF THE OWNER OR OPERATOR;
 - B. THE ADDRESS OF THE LOCATION OF THE ENGINES;
 - C. AN IDENTIFICATION OF THE RELEVANT STANDARD, OR OTHER REQUIREMENT, THAT IS THE BASIS OF THE NOTIFICATION AND THE SOURCE'S COMPLIANCE DATE;

AIR QUALITY

MANAGEMENT DISTRICT

AUTHORITY TO CONSTRUCT

A/C NO.: 23112-23116

- D. A BRIEF DESCRIPTION OF THE NATURE, SIZE, DESIGN, AND METHOD OF OPERATION OF THE SOURCE AND AN IDENTIFICATION OF THE TYPES OF EMISSION POINTS WITHIN THE AFFECTED SOURCE SUBJECT TO THE RELEVANT STANDARD AND TYPES OF HAZARDOUS AIR POLLUTANTS EMITTED; AND
- E. A STATEMENT OF WHETHER THE AFFECTED SOURCE IS A MAJOR OR AN AREA SOURCE.
- THE INITIAL NOTIFICATION SHALL BE SUBMITTED TO EPA AT THE FOLLOWING ADDRESS: DIRECTOR, AIR DIVISION, U.S. ENVIRONMENTAL PROTECTION AGENCY, 75 HAWTHORNE STREET, SAN FRANCISCO, CA 94105.

YOUR APPLICATION FOR THIS AIR QUALITY AUTHORITY TO CONSTRUCT WAS EVALUATED FOR COMPLIANCE WITH SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT (AQMD), STATE AND FEDERAL AIR QUALITY RULES. THE FOLLOWING LISTED RULES ARE THOSE THAT ARE MOST APPLICABLE TO THE OPERATION OF YOUR EQUIPMENT. OTHER RULES MAY ALSO BE APPLICABLE.

<u>AQMD RULE NO.</u>	<u>RULE TITLE</u>
201	GENERAL PERMIT REQUIREMENTS
202	NEW SOURCE REVIEW
301	STATIONARY SOURCE PERMIT FEES
401	RINGELMANN CHART
402	NUISANCE
406	SPECIFIC CONTAMINANTS
412	STATIONARY INTERNAL COMBUSTION ENGINES LOCATED AT MAJOR STATIONARY SOURCES FOR NOx
420	SULFUR CONTENT OF FUELS
801	40 CFR PART 60 SUBPART JJJJ – STANDARDS OF PERFORMANCE FOR STATIONARY SPARK IGNITION INTERNAL COMBUSTION ENGINES
	40 CFR PART 60 SUBPART Cc – EMISSION GUIDELINES AND COMPLIANCE TIMES FOR MUNICIPAL SOLID WASTE LANDFILL
	40 CFR PART 60 SUBPART WWW – STANDARDS OF PERFORMANCE FOR MUNICIPAL SOLID WASTE LANDFILLS
901	40 CFR PART 63 SUBPART ZZZZ – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES

IN ADDITION, THE CONDITIONS ON THIS AUTHORITY TO CONSTRUCT MAY REFLECT SOME, BUT NOT ALL, REQUIREMENTS OF THESE RULES. THERE MAY BE OTHER CONDITIONS THAT ARE APPLICABLE TO THE OPERATION OF YOUR EQUIPMENT. FUTURE CHANGES IN PROHIBITORY RULES MAY ESTABLISH MORE STRINGENT REQUIREMENTS WHICH MAY SUPERSEDE THE CONDITIONS LISTED HERE.

FOR FURTHER INFORMATION PLEASE CONSULT YOUR AQMD RULEBOOK OR CONTACT THE AQMD FOR ASSISTANCE.

PERMIT TO OPERATE

**ISSUED TO: KIEFER LANDFILL
DEPARTMENT OF WASTE MANAGEMENT AND RECYCLING
MUNICIPAL SERVICES AGENCY
COUNTY OF SACRAMENTO**

EQUIPMENT LOCATION: 12701 KIEFER BLVD., SLOUGHHOUSE, CA 95683

PERMIT NO.	EQUIPMENT DESCRIPTION
22419	IC ENGINE STANDBY, MAKE: DETROIT DIESEL, MODEL: 6063HV35, SERIAL NO.: 06R1044275, 550 BHP @ 1,800 RPM, 855 IN ³ DISPLACEMENT, DIESEL FIRED, DRIVING AN EMERGENCY ELECTRIC GENERATOR.

SUBJECT TO THE FOLLOWING CONDITIONS:

GENERAL

1. THE EQUIPMENT SHALL BE PROPERLY MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AT ALL TIMES.
2. THE AIR POLLUTION CONTROL OFFICER AND/OR AUTHORIZED REPRESENTATIVES, UPON THE PRESENTATION OF CREDENTIALS, SHALL BE PERMITTED:
 - A. TO ENTER UPON THE PREMISES WHERE THE SOURCE IS LOCATED OR IN WHICH ANY RECORDS ARE REQUIRED TO BE KEPT UNDER THE TERMS AND CONDITIONS OF THIS PERMIT TO OPERATE, AND
 - B. AT REASONABLE TIMES TO HAVE ACCESS TO AND COPY ANY RECORDS REQUIRED TO BE KEPT UNDER THE TERMS AND CONDITIONS OF THIS PERMIT TO OPERATE, AND
 - C. TO INSPECT ANY EQUIPMENT, OPERATION, OR METHOD REQUIRED IN THIS PERMIT TO OPERATE, AND
 - D. TO SAMPLE EMISSIONS FROM THE SOURCE OR REQUIRE SAMPLES TO BE TAKEN.
3. THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26, PART 4, CHAPTER 3, OF THE CALIFORNIA HEALTH AND SAFETY CODE OR THE RULES AND REGULATIONS OF THE AIR QUALITY MANAGEMENT DISTRICT.
4. THE EQUIPMENT SHALL NOT DISCHARGE SUCH QUANTITIES OF AIR CONTAMINANTS OR OTHER MATERIALS WHICH CAUSE INJURY, DETRIMENT, NUISANCE OR ANNOYANCE TO ANY CONSIDERABLE NUMBER OF PERSONS OR TO THE PUBLIC, OR WHICH ENDANGER THE COMFORT, REPOSE, HEALTH, OR SAFETY OF ANY SUCH PERSONS OR THE PUBLIC, OR WHICH CAUSE, OR HAVE A NATURAL TENDENCY TO CAUSE, INJURY OR DAMAGE TO BUSINESS OR PROPERTY.

LARRY GREENE

AIR POLLUTION CONTROL OFFICER

DATE ISSUED: MM-DD-2011

DATE EXPIRES: 01-25-YYYY (UNLESS RENEWED)

BY: _____

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

5. A LEGIBLE COPY OF THIS PERMIT SHALL BE MAINTAINED ON THE PREMISES WITH THE EQUIPMENT.

EMISSIONS LIMITATIONS

6. THE IC ENGINE SHALL NOT DISCHARGE INTO THE ATMOSPHERE ANY VISIBLE AIR CONTAMINANTS OTHER THAN UNCOMBINED WATER VAPOR, FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR, WHICH ARE AS DARK OR DARKER THAN RINGELMANN NO. 1 OR EQUIVALENT TO OR GREATER THAN 20% OPACITY.
7. THE EMISSIONS FROM THE IC ENGINE SHALL NOT EXCEED THE FOLLOWING LIMITS:

POLLUTANT	EMISSION FACTOR(A) G/HP-HR	MAXIMUM ALLOWABLE EMISSIONS (B)		
		LB/DAY	LB/QUARTER	LB/YEAR
VOC	1.0	29.1	243	243
NOx	3.0	87.3	728	728
VOC + NOx (C)	3.0	87.3	728	728
SOx	0.005	0.1	1	1
PM10	0.149	4.3	36	36
CO	2.6	75.7	631	631
GHG	22.35 LB CO ₂ E/GAL	7 TONS/DAY	60 TONS/QUARTER	60 TONS/YEAR

- (A) EMISSION FACTORS FOR VOC, NOx, VOC + NOx, AND CO ARE BASED THE DISTRICT'S BACT STANDARDS (TIER 3 STANDARD). PM EMISSIONS ARE BASED ON T-BACT STANDARDS. SOx EMISSIONS ARE BASED ON 0.0015% SULFUR BY WEIGHT IN THE FUEL. GHG EMISSION FACTOR IS THE CO₂E EMISSION FACTOR AS PER APPENDIX A OF CARB'S REGULATION FOR THE MANDATORY REPORTING OF GREENHOUSE GAS EMISSIONS (CCR, TITLE 17, SUBCHAPTER 10, ARTICLE 2, SECTIONS 95100 TO 95133). ALL EMISSION LIMITS ARE IN ENGLISH UNITS.
- (B) EMISSIONS BASED ON 550 HP, 24 HOURS/DAY, 200 HOURS/QUARTER AND 200 HOURS/YEAR OF OPERATION.
- (C) THE ENGINE IS REQUIRED TO COMPLY WITH THE COMBINED NOx + VOC EMISSION STANDARD. FOR THE PURPOSE OF CALCULATING NOx AND VOC INDIVIDUALLY, VOC EMISSIONS ARE ASSESSED AT THE WORSE CASE SCENARIO OF THE UNCONTROLLED AP-42 EMISSION FACTOR OF 1.0 G/BHP-HR AND NOx EMISSIONS ARE ASSESSED AT THE WORSE CASE LIMIT OF 3.0 G/BHP-HR. BACT IS ONLY TRIGGERED FOR INDIVIDUAL POLLUTANTS.

EQUIPMENT OPERATION

8. THE IC ENGINE SHALL OPERATE ONLY FOR THE FOLLOWING PURPOSES AND SHALL NOT OPERATE MORE THAN THE FOLLOWING HOURS:

TYPE OF OPERATIONAL HOURS	MAXIMUM ALLOWABLE OPERATION	
	HOURS/QUARTER	HOURS/YEAR
MAINTENANCE PURPOSES (A)	50	50
ALL OPERATION - MAINTENANCE (A) AND EMERGENCY (B)	200	200

- (A) MAINTENANCE PURPOSES IS DEFINED AS: THE OPERATION OF AN IC ENGINE IN ORDER TO PRESERVE THE INTEGRITY OF THE IC ENGINE, ITS ASSOCIATED GENERATOR OR THE FACILITY'S ELECTRICAL DISTRIBUTION SYSTEM, OR WHEN REQUIRED BY THE SMAQMD TO VERIFY COMPLIANCE WITH THE APPLICABLE RULES AND REGULATIONS.
- (B) EMERGENCY IS DEFINED AS: WHEN ELECTRICAL SERVICE FROM THE SERVING UTILITY IS INTERRUPTED BY AN UNFORESEEABLE EVENT.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

9. THE IC ENGINE SHALL BE EQUIPPED WITH A NON-RESETTING HOUR METER, WITH A MINIMUM DISPLAY CAPABILITY OF 9,999 HOURS, TO ENSURE COMPLIANCE WITH CONDITION NOS. 7 AND 8.
10. UPON REQUEST OF THE AIR POLLUTION CONTROL OFFICER OR DESIGNEE, ONCE EACH YEAR, DURING DAYLIGHT HOURS, THE IC ENGINE SHALL BE RUN AT MAXIMUM ANTICIPATED LOAD, FROM A COLD START CONDITION, FOR OBSERVATION OF COMPLIANCE WITH OPACITY LIMITATIONS.
11. THE IC ENGINE SHALL BE FUELED WITH CARB DIESEL FUEL, OR AN ALTERNATIVE DIESEL FUEL THAT MEETS THE REQUIREMENTS OF THE VERIFICATION PROCEDURE (AS CODIFIED IN TITLE 13, CCR, SECTIONS 2700-2710), OR AN ALTERNATIVE FUEL, OR CARB DIESEL FUEL USED WITH FUEL ADDITIVES THAT MEETS THE REQUIREMENTS OF THE VERIFICATION PROCEDURE, OR ANY COMBINATION OF FUELS LISTED IN THIS CONDITION.

RECORD KEEPING

12. THE FOLLOWING RECORDS SHALL BE CONTINUOUSLY MAINTAINED ONSITE FOR THE MOST RECENT FIVE YEAR PERIOD AND SHALL BE MADE AVAILABLE TO THE AIR POLLUTION CONTROL OFFICER UPON REQUEST. MONTHLY, QUARTERLY, AND ANNUAL RECORDS SHALL BE MADE AVAILABLE WITHIN 30 DAYS OF END OF REPORTING PERIOD.

FREQUENCY	INFORMATION TO BE RECORDED
WHEN OPERATED	A. DATE. B. PURPOSE – EITHER MAINTENANCE (M) OR EMERGENCY POWER (E). C. NUMBER OF HOURS OF OPERATION.
MONTHLY	D. TOTAL NUMBER OF HOURS OF OPERATION FOR EACH OPERATING MODE (HOURS/MONTH).
QUARTERLY	E. TOTAL NUMBER OF HOURS OF OPERATION FOR EACH OPERATING MODE (HOURS/QUARTER).
ANNUALLY	F. TOTAL NUMBER OF HOURS OF OPERATION FOR EACH OPERATING MODE (HOURS/YEAR).
ALL FUEL DELIVERIES	G. RETAIN FUEL PURCHASE RECORDS THAT ACCOUNT FOR ALL FUEL PURCHASED FOR USE IN THE ENGINE. FUEL PURCHASE RECORDS SHALL INCLUDE: 1. IDENTIFICATION OF TYPE OF FUEL (CARB DIESEL, ALTERNATE DIESEL, ETC.) 2. QUANTITY OF FUEL PURCHASED. 3. DATE OF FUEL PURCHASE. 4. SIGNATURE OF PERSON RECEIVING FUEL. 5. SIGNATURE OF FUEL PROVIDER INDICATING THAT FUEL WAS DELIVERED.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

YOUR APPLICATION FOR THIS AIR QUALITY PERMIT TO OPERATE WAS EVALUATED FOR COMPLIANCE WITH SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT (AQMD), STATE AND FEDERAL AIR QUALITY RULES. THE FOLLOWING LISTED RULES ARE THOSE THAT ARE MOST APPLICABLE TO THE OPERATION OF YOUR EQUIPMENT. OTHER RULES MAY ALSO BE APPLICABLE.

<u>AQMD RULE NO.</u>	<u>RULE TITLE</u>
201	GENERAL PERMIT REQUIREMENTS
202	NEW SOURCE REVIEW
401	RINGELMANN CHART
402	NUISANCE
406	SPECIFIC CONTAMINANTS
420	SULFUR CONTENT OF FUELS
40 CFR 60 SUBPART IIII	STANDARDS OF PERFORMANCE FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES
901	40 CFR 63 SUBPART ZZZZ – NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES
904	AIRBORNE TOXIC CONTROL MEASURE FOR STATIONARY COMPRESSION IGNITION ENGINES

IN ADDITION, THE CONDITIONS ON THIS PERMIT TO OPERATE MAY REFLECT SOME, BUT NOT ALL, REQUIREMENTS OF THESE RULES. THERE MAY BE OTHER CONDITIONS THAT ARE APPLICABLE TO THE OPERATION OF YOUR EQUIPMENT. FUTURE CHANGES IN PROHIBITORY RULES MAY ESTABLISH MORE STRINGENT REQUIREMENTS WHICH MAY SUPERSEDE THE CONDITIONS LISTED HERE.

FOR FURTHER INFORMATION PLEASE CONSULT YOUR AQMD RULEBOOK OR CONTACT THE AQMD FOR ASSISTANCE.

ATTACHMENT D

EPA Letter Dated 4-22-2004



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

WASTE MGT. & RECYCLING

2004 MAY 14 AM 10:13

APR 22 2004

Gregory Gratz
Project Engineer
Derenzo and Associates, Inc.
39395 Schoolcraft Road
Livonia, MI 48150

Re: Kiefer Landfill

Dear Mr. Gratz:

The United States Environmental Protection Agency (EPA) received your letter dated March 2, 2004 regarding New Source Performance Standard ("NSPS") Subpart WWW applicability to internal combustion ("IC") engines and boilers connected to the Kiefer Landfill Gas ("LFG") Treatment system.

EPA has issued several determinations indicating that compression, de-watering, and landfill gas filtered down to at least 10 microns for use in an energy recovery device is considered treatment for the purposes of 60.752(b)(2)(iii)(C). In accordance with those previous determinations, Region 9 concurs with the statement in your letter dated March 2, 2004 that landfill gas treated in this (compression, de-watering, and filtering landfill gas down to at least 10 microns for use in an energy recovery device) manner is not subject to the requirements of Subpart WWW or 40 CFR Part 63 Subpart AAAA- National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Municipal Solid Waste (MSW) Landfills.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. McDaniel", followed by a horizontal line.

Douglas K. McDaniel
Acting Chief, Air Enforcement

ATTACHMENT E

EPA Correspondence Regarding NESHAP ZZZZ Requirements for LFG Engines Nos. 4 & 5

FELIX TRUJILLO JR.

From: King.Melanie@epamail.epa.gov
Sent: Friday, October 07, 2011 7:44 AM
To: FELIX TRUJILLO JR.
Cc: Cullen.Daniel@epamail.epa.gov; Dupree.John@epamail.epa.gov
Subject: Re: NESHAP Subpart ZZZZ Question

Hi,

I think we need to loop EPA's Office of Compliance in on this question, John DuPree is the OC contact for this rule. John, what are your thoughts? It's true that the rule requires monitoring of the fuel use as Felix has stated below. I agree that if the engine never uses anything other than landfill gas, there doesn't seem to be much point in having fuel meters, as long as we have some assurance there is no way they'd be able to use any other type of fuel. However, I'm not sure what flexibilities we have to allow folks to deviate from the rule requirements.

On your second question, I believe that is correct that they can use the reports they submit under Title V.

Melanie King
Energy Strategies Group
Sector Policies and Programs Division
Office of Air Quality Planning and Standards U.S. Environmental Protection Agency

Mail Code D243-01
RTP, NC 27711

Phone: (919) 541-2469
Fax: (919) 541-5450
king.melanie@epa.gov

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| From: |
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>-----|
| "FELIX TRUJILLO JR." <FTrujillo@airquality.org> |
>-----|
|----->
| To: |
|----->
>-----|
| Melanie King/RTP/USEPA/US@EPA, Daniel Cullen/AA/USEPA/US@EPA |
>-----|
|----->
| Date: |
|----->
>-----|
| 10/05/2011 03:48 PM |
>-----|
|----->
| Subject: |

FELIX TRUJILLO JR.

From: Dupree.John@epamail.epa.gov
Sent: Tuesday, October 11, 2011 6:46 AM
To: FELIX TRUJILLO JR.
Cc: King.Melanie@epamail.epa.gov; Cullen.Daniel@epamail.epa.gov
Subject: RE: NESHAP Subpart ZZZZ Question

Hello Felix,

I agree with Melanie. It doesn't make sense to install fuel flow meters in this situation. I will need to check to see what needs to be done to allow the source to forego use of fuel flow meters.

John DuPree
Wood Heater Program Team Leader
Telephone: 202-564-5950

10/19/11 - Air Quality Engineer Felix Trujillo called John Dupree (EPA Office of Compliance) and let him know that the engines are only setup to burn LFG. Felix Trujillo confirmed this with Kiefer Landfill contact Tim Israel this morning. Told John Dupree that I can put a condition on the permits only allowing LFG to be used on the engines. John Dupree agreed that fuel meters are not required.

ATTACHMENT F

Facility Letter Requesting Cancellation of IC Engine (18184) and Associated Grinder (P/O 18185)

Municipal Services Agency

**Department of Waste
Management & Recycling**
Paul Philleo, Director



**County of
Sacramento**

Bradley Hudson, County Executive
Robert Leonard, Agency Administrator

November 8, 2011

Felix Trujillo Jr.
Associate Air Quality Engineer
Sacramento Metropolitan Air Quality Management District
777 12th Street, 3rd Floor
Sacramento, Ca 95814-1908

Subject: Kiefer Landfill Greenwaste Grinder

Dear Mr. Trujillo,

The County of Sacramento Municipal Services Agency Department of Waste Management and Recycling (DWMR) wishes to cancel all SMAQMD and Title V permits associated with the greenwaste grinder located at the Kiefer Landfill (PTOs 18184 and 18185). The grinder suffered a serious mechanical breakdown and repair of the equipment is not economically feasible.

Please feel free to contact me at 876-9431 if you have any questions regarding this information.

Sincerely;

Tim Israel, PE
Senior Civil Engineer

ATTACHMENT G

Facility Letter Requesting to Incorporate Recent Modifications to Title V Permit

Municipal Services Agency

**Department of Waste
Management & Recycling**
Paul Philleo, Director



**County of
Sacramento**

Bradley Hudson, County Executive
Robert Leonard, Agency Administrator

December 1, 2011

Felix Trujillo, Jr.
Associate Air Quality Engineer
Sacramento Metropolitan Air Quality Management District
777 12th Street, 3rd Floor
Sacramento, Ca 95814-1908

Subject: Kiefer Landfill Title V Renewal

Dear Mr. Trujillo,

The County of Sacramento Municipal Services Agency Department of Waste Management and Recycling (DWMR) wishes to that the following Permit to Operates and Authorities to Construct are included in the SMAQMD's renewal of the Kiefer Landfill Title V permit:

A/C 23110 – Flare 1
A/C 23111 – Flare 2
A/Cs 23112-23116 - LFG IC Engines
A/C 23105 - Auxiliary engine on street sweeper No.1
P/O 21893 - Auxiliary engine on street sweeper No. 2
P/O 21262 - IC Engine powering trommel screen (TSA)
P/O 19188 - Trommel screen (TSA)
A/C 22922 - Trommel screen (TSB)
A/C 22923 - IC Engine powering trommel screen (TSB)
P/O 20266 – Gasoline dispensing facility
P/O 17821 – LFG collection system
A/C 22923 – Standby IC engine (water system generator)

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Please feel free to contact me at 916-876-9431 if you have any questions regarding this request.

Sincerely;

Tim Israel, PE
Senior Civil Engineer